

Theme 2: UK Economy: Performance & Policies

Course Companion for AS and A Level Edexcel Economics A

Second Edition, 23rd June 2016, Endorsed for Edexcel



zigzageducation.co.uk

POD 5863

Publish your own work... Write to a brief... Register at **publishmenow.co.uk**

Contents

Thank You for Choosing ZigZag Education	ii
Teacher Feedback Opportunity	iii
Terms and Conditions of Use	iv
Teacher's Introduction	1
Introduction to Macroeconomics	2
Measures of Economic Performance (2.1)	3
Economic Growth	
Inflation	
Employment and Unemployment	
Balance of Payments	
Exam-style Questions 1: Measures of Economic Performance	
Aggregate Demand (2.2)	
Consumption (C)	
Investment (I)	
Government Expenditure (G)	
Net Trade (X – M)	
Questions: Aggregate Demand	40
Aggregate Supply (2.3)	41
Short Run and Long Run	41
AS Curves	
Causes of Inflation	
Questions: Aggregate Supply	
Exam-style Questions 2: Aggregate Demand and Aggregate Supply	
National Income (2.4)	
Injections and Withdrawals The Multiplier	
Questions: National Income	
Economic Growth (2.5)	
Trade (Business) Cycle and Output Gaps	
Questions: Economic Growth	
Macroeconomic Objectives and Policy (2.6)	65
Possible Macroeconomic Objectives	
Demand-side Policies	
Supply-side Policies	
Conflicts and Trade-offs between Objectives and Policies	
Questions: Macroeconomic Objectives and Policy	
Exam-style Questions 3: Macroeconomic Objectives and Policy	
Answers	
Measures of Economic Performance	
Aggregate Demand (AD)	
National Income	
Economic Growth	
Macroeconomic Objectives and Policies	
Answers to Exam-style Questions	94
Exam-style Questions 1	
Exam-style Questions 2	
Exam-style Questions 3	96
Glossary	97
Exam Tips!	99

Edexcel Economics A Theme 2 Course Companion: Marketing & People

A Note Regarding Endorsement

In order to ensure that this resource offers high-quality support for the associated Pearson qualification, it has been through a review process by the awarding body. This process confirms that; this resource fully covers the teaching and learning content of the specification or part of a specification at which it is aimed. It also confirms that it demonstrates an appropriate balance between the development of subject skills, knowledge and understanding, in addition to preparation for assessment.

Endorsement does not cover any guidance on assessment activities or processes (e.g. practice questions or advice on how to answer assessment questions), included in the resource nor does it prescribe any particular approach to the teaching or delivery of a related course.

While the publishers have made every attempt to ensure that advice on the qualification and its assessment is accurate, the official specification and associated assessment guidance materials are the only authoritative source of information and should always be referred to for definitive guidance.

Pearson examiners have not contributed to any sections in this resource relevant to examination papers for which they have responsibility.

Examiners will not use endorsed resources as a source of material for any assessment set by Pearson.

Endorsement of a resource does not mean that the resource is required to achieve this Pearson qualification, nor does it mean that it is the only suitable material available to support the qualification, and any resource lists produced by the awarding body shall include this and other appropriate resources.

All rights reserved © ZigZag Education Unit 3 Greenway Business Centre Doncaster Road Bristol BS10 5PY

www.zigzageducation.co.uk

Teacher's Introduction

This resource is designed to supplement and enhance your teaching of the 2015 linear Economics A Level. It has been written to cover every aspect of Theme 2 of the Edexcel Economics A course as well as options for further research and study for keen and interested students. As 15–20% of the exam will be quantitative, this resource has ensured all the relevant maths is covered; however, it is assumed the students have a basic GCSE-level understanding.

These notes can be given to students before a lesson (to allow students to read ahead in preparation) or after a lesson (as a revision tool to strengthen and build on current knowledge), or students can work through the resource in class.

At the **beginning** of every section is a list of content that the students will be learning. This is designed to prepare them for the lessons that follow and it can also be used as a checklist, either after learning the section or during revision, to remind students of the content they have studied and ensure they have learnt the points on the specification. Questions and answers are provided at the **end** of each section; these consolidate and develop pupils' learning.

Each specification point has complete notes with all the relevant diagrams clearly explained and examples given where possible to help students relate their theoretical knowledge to real-life situations. Any key terms are defined either at the beginning of a topic or in key-term boxes throughout.

Other boxes include:

- Further Your Economic Knowledge: These boxes are designed for students who may want to expand their studies and learn more about certain topics. The content in these boxes is relevant to the course and although not essential, they can be used in the exam to gain A* points.
- Activity! These boxes include a wide range of interactive or visual activities to secure and recap on knowledge, or provide materials for reading around the topic. These can be used to break up lessons and to support various types of learners.
- Learn More! These boxes provide links to extra materials such as articles and videos, which will enable students to read around a topic.
- **Evaluation Point** Edexcel will reward marks to students who exhibit AO3 and AO4 skills. These boxes provide tips to students that will allow them to analyse and evaluate topics.
- Be careful! These boxes highlight common mistakes that pupils make and explain why they often occur.
- Link circles: The exam board wants students to be able to make connections across themes and sections, for example using PPFs from Theme 1 to evaluate an economy when talking about migration in Theme 2. These circles link students forward to topics they will study or backwards to topics they have already studied that will relate to their current lessons. The numbering used relates to the specification numbering.



Specification note:

The order of the specification has been mirrored as much as practical, with just a few notable exceptions:

- 'Causes of inflation', 2.1.2e, is covered at the end of Aggregate Supply (2.3), after AD and AS have been introduced.
- Some sub-topics have been reordered within the larger specification topics in order to give what I hope is one logical teaching approach (for example, in 2.1 'Measures of Economics Performance', economic growth has been dealt with third rather than first).

The specification requires the students to have knowledge of the UK economy over the last 10 years. The main aim of this companion has been to provide student-friendly explanations of often-complicated theory. While up-to-date information about the UK economy has been provided in this companion, coverage of this element should be supplemented by further UK-based case studies and examples to consolidate learning.

July 2015

Second Edition, Endorsed for Edexcel, 26th April 2016

Minor corrections and additions to meet Edexcel endorsement standards:

- Page 3: Clarified that economic growth is growth in real GDP.
- Page 6 and 62: Added more recent UK data to the graphs.
- Page 16: Clarified that QS make up 20% of A Level exams and 15% of AS.

Free Updates!



A webpage containing all the links listed in this resource is conveniently provided on ZigZag Education's website at zzed.uk/5863

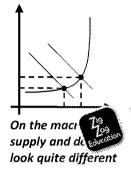
Register your email address to receive any future free updates* made to this resource or other Economics resources your school has purchased, and details of any promotions for your subject.

* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

Go to zzed.uk/freeupdates

Introduction to Macroeconomics

In Theme 1 we looked at *microeconomics* which focuses on individual management with the supply and demand of goods and services: how must more will companies produce if they can get a higher price for their goods. How will consumers respond? We looked at decision making at the level of individual people and firms. Does the demand for apples change if pears become more expensive?



We now turn our attention to **macro conomics** and talk things. Macroeconomics expand the economy as a wall a firm's output, we have a firm's output, we have a firm's a firm's all the national output of a becomes argue 1. Supply and aggregate demand, what is a firm's a firm's economy.

In microeconomics we looked at how the government might intervene to failure in a single market. Macroeconomics considers the role of the government economic system. We think about what causes an economy twhy growth is important and the tools at the government's disposal to present the government that the government is given by the given by the government is given by the given



When looking at an entire economy we have to extend economies too. Most countries have open economies a What's the balance between imports and exports? Whather the change?

Macroeconomics might seem more relevant; it considers the big issues su and GDP that politicians are invariably talking about on the news. However the microeconomic principles which underpin a lot of macroeconomic the





Measures of Economic Perform

By the end of this topic, you should understand...

✓ Economic Growth

- What is meant by interconnectedness of economies
- Economic growth as a change in the rate of real GDP
- The difference between value and volume, total and per capita, real and n
- The purpose of purchasing power parities
- National happiness
- The limitations of GDP

✓ Inflation

- Difference between inflation, deflation and disinf
- The effects of inflation on consumers, firm இதி enment and workers
- How inflation is measured using CF: Ad Pl

✓ Unemployment

- Difference between and underemployment and underemployment
- <u>The</u>cal to provinent
- ffe workers, the government on consumers, firms, workers, the government on consumers, firms, workers, the government on consumers.
- we significance of migration

✓ Balance of Payments

- The structure of the balance of payments
- What is meant by a current account deficit and a current account surplus

Economic Growth

Economists and politicians alike are obsessed with growth. It's the fundamental is doing and arguably one of the most straightforward to interpret: growth mean means more money and it means a better standard of living in general. In this segrowth is and how it can be measured.

Gross Domestic Product (GDP) and Economic Growth

The most common measure of growth is 'real' gross domestic product (real GDP). GDP is the sum market value of all the goods and services produced in one economy in one year*. It can be calculated either by finding the sum value of the economy's income, or the sum value of the economy's expenditure. Remember the circular flow diagram! Every time somebody spends money (expenditure), a producer has earned that money (income), ergo expenditure should equal income.

Real Control of the c

Did you know...?

Small differences in growth rate can have big effects on the case. The UK's average resolver the last 50 years is 2.6%. A stant rate of 2.6% an economy will double in size every 27 years. If this is increased to 3.2% a year then the time it takes to double decreases to 22 years – 5 years sooner!

Because DP shows the size is how ges shows the growth conomic growth is the value GDP. This can be seen on a PPPF shows the maximum pot produce, if all its resources wallocated. A shift outwards of economy has a greater capab goods and services and is mo increase its real GDP. There is growth.

* GDP can be measured using various time frames, such as every month, or even every dotherwise, GDP values use one-year time periods.

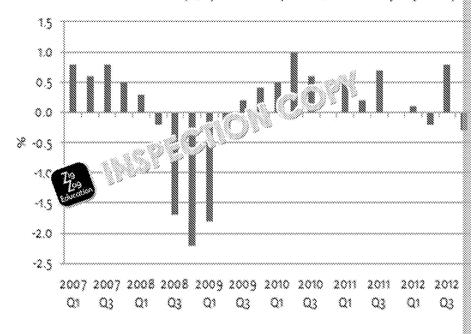


ACTIVITY

The technical definition of a recession is *two consecutive quarters of* mind, think about the graph below which shows quarterly growth figures for the

UK GDP Growth

(%, quarter on quarter, seasonally adjusted)



QUANTITATIVE SKILLS

Percentage Change

In macroeconomics it's often useful to express changes in percentage terms. For $^{\circ}$ UK was £381,142,000,000 in 2005 (source: ONS). This rose to £396,566,000, £15,424,000,000. On their own, these figures are hard to interpret – they are $^{\circ}$

A much simpler way of expressing the increase in growth is to look at percentage calculate this is shown below:

% change =
$$\frac{\text{(new value - old value)}}{\text{old value}} \times 100$$

Putting our figures into this formula we get:

% charge
$$\frac{15.454000000}{3811420000000} \times 100 = 4.05^{\circ}$$

So there was growth with all over the course of the year. This is much easier other year and other economies. Make sure you're comfortable with calculating they're a contract of economics.

Volume versus Value

If GDP is the total value of products then the number of goods and services shou 'volume' of goods and services, but what is the value? Remember the function of comparable value; to compare the changes in the GDP, goods and services need such as prices! Therefore, we calculate the total price of all the goods and service monetary value of the economy – the GDP.



Real versus Nominal

One of the main reasons to measure economic growth is to allow for comparison how the economy compares to last year, the year before that – or even decades

However, as mentioned in the section on inflation, prices change over time. A poworth as much as a pound today because inflation erodes the value away. There distinction between **real** and **nominal** national income. **Nominal** national income services produced that year at that year's prices. This means that comparisons we meaning. Nominal national income growth will look higher than in reality because grow, price levels increase too.

To account for this, economists use **real** national income as a measure of an economist accounts for rises in price levels by 'deflating' the more meaningful comparison of values over time.

For example: an economy problem in Usucks at £1 each will have a nominal GDE £1.50 but the economy second producing 50 socks then the economy's nominal appears to problem in the economy has not grown as

QUANTITATIVE SKILLS

Converting from money to real terms

Macroeconomists like to compare values over time to get a sense of the direction heading. How has growth changed? Have wages increased?

The trouble is that the value of money changes too as a result of inflation. A pour worth as much as it is today.

Measurements of prices from the time they were recorded are known as **nominal** nominal values over time will be exaggerated because it will capture both chan increases in the price level due to inflation.

To truly compare values over time, therefore, we must convert to **real terms**. This of changes in the price level. To do this, we use a price index (such as CPI) to 'de

For example, suppose that the median wage increases from £25,000 to £26,00 which is an increase in nominal terms of 4%. However, the price index shows that over the same period of 1%.

We therefore construct a 'deflator' which is 100 divided by the index: $\frac{100}{101}$

This is then multiplied by the new value to give it in real terms:

We look at the 'real' change when comparing GDP over time – we need to look a goods without the effect of rising prices (inflation). To do this we calculate the very produced in a country in one year and give them this same value they would have that is picked is called the 'base year' and it is the year that all subsequent measure.

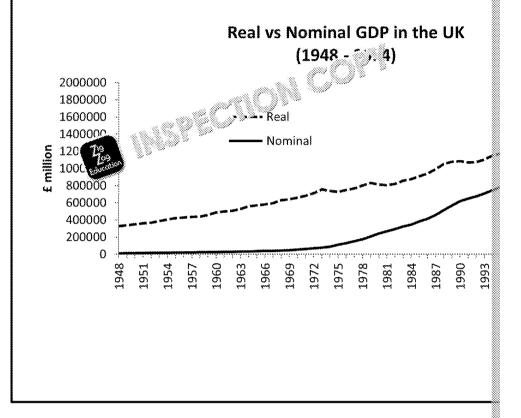
Real GDP growth is one of the key economic variables that politicians will use to economic policies, and which may even make front-page news when growth pluthe direction of the economy over the last period, giving everyone an indication heading right now!



DATA

Let's look at an example which illustrates the idea of real and nominal growth. Be from the Bank of England. It shows real and nominal GDP in the UK between 195 figures use market prices from each year. The real GDP figures, on the other han level. So, in 1950 the national income was about £13,000 million. But in 2006 prabout £30,000 million.

Note how nominal GDP looks as if it rises much faster. This is because prices are



Total versus Per Capita

The USA is a large country, whereas somewhere like the UK is much smaller. The has less labour and fewer resources than the USA and will, therefore, be able to produce far fewer goods and services. Comparing GDP across countries is difficult because a large country may have much higher GDP levels than a smaller country mean they are growing more. Instead, economists may look at GDP per capita where the GDP of the country (total GDP) and divides by the population GDP per capita.

GDP المرابعة المرابع





QUANTITATIVE \$KILL\$

GDP per capita

The GDP of the UK was \$2.678 trillion in 2013 while the GDP of Belgium was \$ economy is much bigger. But then the UK had a population of 64.1 million in 20 million. More people mean a higher level of output of goods and services.

Therefore economists sometimes look at GDP per capita (per person) to remove populations. This is done by dividing the level of GDP by the population.

Let's do this with the figures from our example:

UK GDP per capita =
$$\frac{2.678 \ trillion}{64.1 \ nillion}$$
 = \$41,80

Belgium GDE of
$$\mathcal{L}_{\text{and}} = \frac{524.8\ billion}{11.2\ million} = $46.9$$

So although the UK's and the higher GDP is higher, Belgium has the higher GDP

Note, how the hall NI (Gross National Income) per capita is often preferred to of living significant setween countries.

Other Measures of Economic Growth

- Gross National Income (GNI): This is similar to GDP but includes the income example from dividends from shares owned in foreign companies.
- Gross National Product (GNP): This is GNI but excludes the income non-nat the World Bank uses.

Comparison of Growth Rates – see table overleaf

Look at the table overleaf. It shows the GDP of various countries over time. Comparing £1.3 trillion to €2.4 trillion, it is difficult to know which is bigger and by how much because pounds and euros are different measurements. So the data has been converted into one currency for easier comparison.

The column named 'GDP' shows the total GDP of each country over the four years. This gives very little helpful information. **Generally**, all countries have increased over the four years. But it is difficult, without further calculations, to tell whether each country's growth rates have slowed or not (grown but not by as much the following year) and for policymakers it is difficult to analyse the effectiveness of policies. Equally, the USA has higher GDP levels than smaller economies such as Sweden (about \$15).

trillion compared to \$0.5 trillion), but this is biased so a because the USA is no indication of how well the USA is growing give its ine and access to resource

The column named 'GDP per Capital', it is as you may have guessed, the GDP population size. A large rock to means the economy has access to a large amproduce a large and goods. In 2014 the US had a population of about 323 population 10 million, so it is no surprise that their economy produced at taking account of this variable it can be seen that the USA, Sweden and Germany per-capita levels.

The last column, 'GDP Growth', shows the percentage change of GDP level for early years. This allows us to view whether the countries are growing, shrinking or simprowing by 1.7% in 2010, but in 2011 it had only grown by 0.4%. Italy's economy grew by was smaller. 2012 wasn't a good year for Italy as its economy had negat 2013, showing it had shrunk (\$2.196 trillion in 2012, to \$2.013 trillion in 2013, to looked better in 2013 where Italy's growth rate was -1.9%; it was still shrinking is

COPYRIGHT PROTECTED



Did you kr

An America

an America

American n

trillion is 10

zeros) but @

zeros). This

intermedia

109 (9 zer@

Nowadays trillion is co

is 10° and 8

new standa

Comparison of Growth Rates

Carratai a	GDP				
Countries	(current US\$)				
	2010	2011	01	2013	20
Bhutan	1,585,396,256	1,840,841,618	1,8€ 1,∦,558	1,883,654,335	2,:
Brazil	2,143,067,871,760	2,476,6%1 ,	2,_48,780,912,396	2,245,673,032,354	10,9
China	5,930,502,270,317	11 (غري 14 ماريز) (13 ماريز)	8,229,490,030,098	9,240,270,452,050	4,4
Germany	3 32 435 1 8	,628,110,015,053	3,425,956,470,874	3,634,822,579,319	40,4
Guatemala	7-20 \8,L_2,893	47,654,789,735	50,388,454,861	53,796,711,129	2,8
Guinea	Education \$5,956,476	47,654,789,735	50,388,454,861	53,796,711,129	
Iceland	12,564,705,489	14,042,801,904	13,586,123,061	14,619,848,414	39,
India	1,708,458,876,830	1,880,100,141,185	1,858,744,737,180	1,876,797,199,133	1,4
Indonesia	709,190,823,320	845,931,645,399	876,709,347,689	868,345,645,449	2,9
Italy	2,055,355,252,805	2,196,336,800,620	2,013,265,404,946	2,071,306,890,125	34,0
Japan	5,495,387,182,996	590,563,087,455	5,937,766,585,288	4,901,529,519,266	43,:
Kenya	32,440,133,261	34,313,315,840	40,264,403,585	4,410,114,724	
Mexico	1,051,627,949,327	1,170,085,556,896	1,186,460,890,130	1,260,914,660,977	8,9
New Zealand	143,466,535,135	163,841,041,662	171,461,480,706	185,787,428,717	32,
Peru	148,509,857,547	170,563,949,736	192,636,058,714	\$2,295,635,536	5,0
Romania	164,792,252,746	182,610,666,616	169,39£ 051 35	. 9,638,162,013	8,:
Russian Fed.	1,524,916,112,079	1,904,793,021,649	00.7,4 harj,,,21	2,096,777,030,571	10,
Sudan	65,632,237,471	67,32 <u>0 ე</u> , 1	63,029,562,337	66,547,789,474	1,4
Sweden	463,062,061,649	6,53,020	523,941,063,360	558,948,700,780	49,
Tunisia	44 054 07 1 Villa	42,951,129,422	45,238,491,581	47,128,700,683	4,:
UK	22,0 3,422	2,462,484,285,580	2,461,768,284,868	2,521,380,958,035	36,
USA	education 20,000,000	15,533,800,000,000	16,244,600,000,000	16,768,100,000,000	48,3
Rep. Yemen	31,743,751,169	29,207,296,703	31,992,801,303	35,954,502,304	1,
Zambia	16,190,196,832	19,201,691,493	20,596,424,325	22,383,715,315	1,



Purchasing Power Parities Theory

Purchasing power parity means that when the 'buying ability' of different current equal across countries, then the foreign exchange market is in equilibrium. The topurchasing power parities states that any deviation from equilibrium is only temberause in the long run the market will gravitate back towards equilibrium.

Imagine a good in two countries; let's say tables in the UK and Germany. The pursuggests that equilibrium is met when the table costs the same in both the UK are

between the two is £1 = €2, so the and €100 in Germany.

Learn More!

by The Economist in 1986.
http://www.economist.com/content/big-mac-index

If the tat' tead cost €80 in G e gur ale of £40, so UK consum Gernany rather than the UK (ign costs). UK table producers would

their prices would fall. The same at table producers would find their demand ris This would the same table prices across both countries equalised.

Purchasing power parities can highlight whether a currency is over- or undervalucurrency will return to equilibrium in the long run, unless, like China, something of an undervalued currency and the Chinese government deliberately keeps the their growth heavily relies on export sales and their trade surplus. An undervalue cheaper than foreign goods and encourages the sale of exports. However, an unimport prices to appear more expensive and Chinese companies that import goo

GDP, Living Standards and Happiness

Economic growth means that the total value of all goods and services in an economevelopment is slightly different. It refers to an improvement in living standards as health, environment, education and infrastructure.

ACTIVITY

Once you've read this paragraph, make a list of all the drawbacks to using measures such as GDP, GNI and GNP.

Can you explain why economists still use variables such as GDP to measure living standards and happiness despite these limitations?

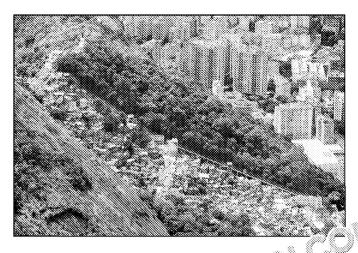
Increasing GDP and other used to show an increasing happiness. The idea is are more goods and seepeople's wants and neemake people happier at Also, as the economy goods and seepeople happier at the goods and seepeople happiness.

growing economy will also have the opportunity for promotion and increasing in will not need to work as hard to afford goods and service the general idea is the money is generated, it can be reinvested in increasing the ring standards and happineducation levels and providing greater capability to others within the economy down" economics. As the high at least each see their incomes increase with economoney. This flows through the conomic system and raises everybody's living standards.

However, example c growth does not always result in economic development and Barriers can prevent money trickling down to the poorest members of society an even richer. There is no guarantee the money from economic growth is being inhigher living standards or improve people's happiness. Increased GDP shows an goods and services, but it does not show how they were made or where the more

If population growth is greater than economic growth, then growth will not result is because although the economy is expanding, the greater demand of a large public services, such as hospitals and schools. In order for economic growth to rethe least, economic growth needs to be greater than population growth.





Another limitation of ruse averages. Average Although the average (for example), there coare earning far, far less income inequality, suchave high levels of grodevelopment and little can be seen in Brazil w towns are adjacent to photo). Any prosperity a prated from economistributed to benefit

So why is economic growth used the same standards? Economic variables are objective and happiness in trive. Although it is not definite and the amount there is a general correlation between economic growth, happiness and development.

Learn More!

To find out more on the http://www.grossnat

And watch https://www.youtube

National Happiness

The Gross National Happiness (GNH) Index attempts to steer policy objectives to standards by measuring happiness rather than production and incomes.

The GNH Index originated in Bhutan and is a more 'all-inclusive' approach to measuring an economy. Unlike the typical views of happiness, the GNH looks above and beyond that of a subjective understanding of happiness. The four pillars of GNH are good governance, sustainable socio-economic development, cultural preservation and environmental conservation.

Learn More!

Visit

http://www.ons.gov. g-national-well-being national-well-being-society.html

UK National Well-being

Well-being is the state of a person in terms of their satisfaction, health and happ Well-being has been set up by the Office of National Statistics (ONS), which has a current economic statistics and current development statistics by including what individuals and as a wider society. A debate was carried out between November information was gathered across the country to determine what should be meas observing national well-being. The result goes beyond economic figures and development and mortality rates, and includes proposed proposed for relations family or partner), education, financial significance, the environment as

Real Income_and S \ i \ \ \ \ \ e Happiness

The relation et les incomes and happiness is an interesting topic in economic reconomic reconomi

Research shows that generally countries with higher incomes have a happier popincomes. Research has also shown this relationship exists within a country, i.e. the country are generally happier than those with less money within the same count because a lack of money can create a struggle to meet basic needs, whereas have purchase the goods desired and countries with higher incomes can provide great



Some economists believe an increase in real incomes can mean a worker does not purchase the goods they want, thereby making them happier. Some believe an interest on happiness, and some believe it can make a person less happy due to the

related pressures. Another hypothesis states an increase in real incomes will increase subjective happiness until a point. This can be known as a 'saturation point', where any increase in real incomes above this point will make no difference to happiness. The true relationship is still unknown; however, there is continuous research surrounding this field of economics.

Why is Economic Growth a Measure of Economic Performance?

A well-performing economy increases, etconomic growth can bring with 'micross, which will help to lower unemployment of proceed an income for people. Economic growth is said linked to higher living standards a greater opportunity to an economy, although this is not always the case; nor is the benefit always evenly distributed across all economic agents.

ACTIVITY

Think about the

- If you move unchanged though, and breaks and rises further
- The production cause illness also adds to the cause illness also adds also
- A country
 extracting
 rises as a r
 not have a
 are used u

Inflation

Microeconomics talks about prices for individual goods in the context of individual However, with macroeconomics the focus is on the 'price level' in the economy; prices for all goods in the economy. Economists are not concerned with the level but instead the rate of change of price level, i.e. by how much the prices have rise

Country A's inflation rate was 3% in June, but in July its inflation was 2%. This would be disinflation because the rate has fallen but there is still a rise in general price.

Country B's inflation over a four-year period is shown below...

Year	Inflation
Year 1	2.0%
Year 2	1.4%
Year 3	0.3%
Year 4	-0.6%

For the first three years, compared experienced disinflation. It wasn't until year 4 –0.6%, that the county is included deflating prices.



Causes of Inflation

Inflation has three main causes. However, this will be covered further in Topic 2. learnt the relevant information. For those who like a very simplified and quick exbox below...

Can't wait...?

Remember the supply and demand diagram! If demand or supply comprise changes. Price will rise if supply retracts or if demand increases

Do not use the simple supply and demand diagram when discussing because this is only a microeconomic concept — you will be marked inflation looks at prices from a macrole of the ese changes should sum change of all the demand curve from all the consumers and a for all the goods/service of the esonomy. A micro supply and demappropriate.

Effects of inflation

There is a variety of problems that arise from price changes. Inflation can be associated with economic growth because, often, inflation follows growth. The other causes of inflation will be discussed in Topic 2.5.1. Deflation, therefore, is associated with negative economic growth. However, deflation can also cause negative growth rates. If prices are falling then firms and consumers know that if they wait, they can get a better deal because things will be cheaper. If people stop buying goods or investing their money, then the economy will stop expanding (think about the circular flow of income diagram). It is generally believed that inflation should be positive; however, high levels of inflation can still have undesirable effects.

Diminishes the Value of Savings

Because inflation decreases purchasing power, money kept aside will los usually diminished by inflation. High enough interest rates (the money remoney with them) can help mitigate the value-diminishing effects of inflation for the same reason.

Shoe-leather Costs

As a consumer, if you know roughly the relative prices of similar goods that a price is acceptable. Firms need knowledge of relative prices in order to before determining a price. Inflation means prices are changing, which no price of a good. This idea of a 'shoe leather' contains from the notion down from walking between various s' of stress there knowledge of the page of th

Another effect of inflace the wears shoe leather comes from the first place and creditions. Seeple need cash, i.e. they need to hold cash in it and the money in a bank account hoping to reduce the effects of inflation more time travelling to the bank to withdraw money. Travelling to and frewithdraw money will wear down shoe leather.

Menu Costs

Changing prices mean firms have to change their labels, print new menu machines is costly, such as on tills, vending machines, etc. This is most reexperience extremely high inflation known as hyperinflation. Zimbabwe peak of their hyperinflation problem prices were doubling every 24 hour less impossible to maintain price lists.

tl

ii

fi

C

d



• Disposable Income

If prices rise then the purchasing power of people's income falls. By this, meant that money doesn't go as far. Imagine you have £5; it costs £1 for bus to school, lunch is £1.50 and at the end of the day you still have £2.5 do with as you please. Maybe you buy a magazine at £2 and buy a 50p be of crisps. Now, you still have £5 but inflation is at 20%. The bus to school and you only have £2 left to do with as you please. But the magazine is £ are unable to purchase the same items as before. This is of particular conincome. Public-sector workers can find their wages are 'frozen' when the back. A 'pay freeze' means wages are kept fixed at the same nominal value a pay cut as prices rise and purchasing power falls.

Costs of Living

If prices increase then people's costs call in a sease. This can be probleg roups living on or close to the analysine. For workers with low bargain wage-rate determination the analy find themselves in a squeeze from risidoes not increase the east with inflation.

Perice of high inflation have been known to start riots and revolts. If prichange to incomes, people feel worse off.

• Government Taxation

If the government doesn't raise personal income tax allowance with inflational society will be greater but the government will receive more tax revenue amount workers can earn before being taxed. Equally, if specific taxes or inflation then the government will receive less tax revenue than it could.

Unemployment

This relationship is discussed in detail in Topic 2.6.4. Phillips found an invunemployment and inflation. He found that as inflation increases, unemvice versa.

• International Competitiveness

As UK prices rise, UK goods will appear more expensive on the global magoods, ceteris paribus. Therefore, inflation can diminish UK competitiver services appear relatively expensive.

• Anticipated Inflation

If inflation is anticipated, firms and governments can include it in planning from inflation and mitigating its effects. Unanticipated inflation can throwhich will lead to problems. If inflation is anticipated, people can take st unanticipated inflation can create uncertainty in business planning and in

Further Your Econ and Carawledge...

ir somes rise, people who were close to a tax-bracket boundar acket. This means more people will be paying the higher incomreceive more tax revenue without having changed fiscal policy and the



Measures of Inflation

Consumer Price Index (CPI) is a measure of inflation and is the measure used by the name, is an index of prices and measures the percentage change in prices. A level is the inflation rate.

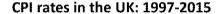
There are far too many goods and services in the UK produced by a variety of suppliers and sold at a variety of outlets to measure all of them. Instead, CPI measures the prices of a representative proportion of aggregate consumption, i.e. CPI measures the price change for over 700 goods and services that are typically bought by an average household. These

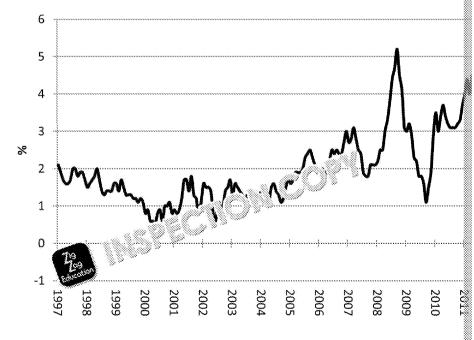
goods/services are referred to as a 'basket of goods' and are found from the 'Liv where households taking the survey record their expend': for a month and the average household's spending pattern. The relating a document and price of this baseverage price level change (inflation). Proceedings, meaning the basket of survey is done regularly in order 's Read and proceed and up to documents.

The Living Counce of the Living of the Livin

DATA

Below is a chart of the CPI rates in the UK between 1997 and 2015. The Bank of as stable as possible and targets a rate of 2%. You can see that prior to the 20 doing quite well: inflation was just below 2% and quite constant. Since the crisis, more volatile, rising about 5% and even becoming slightly negative in early 201





E

tc

b. T

L



Indexation and Measuring CPI

Let's use an example to show how an index is calculated to show inflation.

	Goods		
Year	Good name	Price	Items bought as a percentage of total items bought (weight)
	Good A	£25	10% (0.1)
2013	Good B	£1.50	65% (0.65)
(base year)	Good C	£5.00	15% (0.15)
χ	Good D	£7.50	ეზ (0.1)
	Good A	£25.51	10% (0.1)
2014	Good 7	53	65% (0.65)
2014	Nacac	£5.50	20% (0.15)
	Good D	£7.50	5% (0.05)
distribution	Good A	£26	10% (0.1)
	Good B	£1.60	60% (0.6)
2015	Good C	£5.50	20% (0.2)
	Good D	£7.50	5% (0.05)
	Good E	£7.00	5% (0.05)
	Good A	£27	10% (0.1)
2016	Good B	£1.60	60% (0.6)
2016	Good C	£5.60	15% (0.15)
	Good E	£7.50	15% (0.15)

- 1. First you need to select a base year. There may be particular reasons for a y but otherwise it can be any. In this example 2013 will be the base year becaudata for.
- 2. From the survey, the goods bought by most households and their weights for the survey. The goods and their weights may change slightly according to prepare.
- 3. The price level for each year is then found from the representative sample ceach good by its weight and adding them together.

$$\begin{array}{l} \text{Price Level}_{\text{Year}} = (\text{Price}_{\text{A}} \times \text{Weight}_{\text{A}}) + (\text{Price}_{\text{B}} \times \text{Wei}_{\text{i}})_{\text{B}} + (\text{Price}_{\text{C}} \times \text{Weight}_{\text{B}}) \\ \text{Price Level}_{\text{2013}} = (\text{£25} \times 0.1) + (\text{£1.5} \times 0.65) & \text{(5°)} & \text{(15°)} & \text{($1$$

This is done for all the years and is some on the table.

- 4. Then the second by = $\left(\frac{\text{Price Value of Year}}{\text{Price Value of Base Year}}\right) \times 100$. So the $\left(\frac{\text{E5.02}}{\text{E4.98}}\right) \times 100 = 101$
- 5. The base year is always $100 \left[100 = \left(\frac{£4.98}{£4.98} \right) \times 100 \right]$. Any index above 100 sl price level and therefore inflation, e.g. from 2013 to 2014 (index 101) there to 2015 (index 108) there was 8% inflation. If the index was 98 then there was



6. To find the inflation between years, you first find the difference between the the base number. Inflation = $\left[\frac{(\operatorname{Index}_B - \operatorname{Index}_A)}{\operatorname{Index}_{Base}}\right] \times 100$. So the inflation from $\left[\frac{(108-101)}{100}\right] \times 100$.

Because the base year is always 100, finding inflation from the base year car

Inflation = Difference between two years

QUANTITATIVE SKILLS

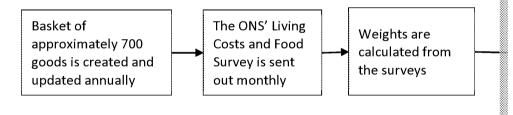
You need to know how to calculate and interpret index in the sers as part of the all element of the course. These skills account for up or 0° of the marks in the A Lesure you're comfortable with the ideas and account for up or 0°.

Retail Pro lex (RPI)

The RPI is an ener measure of inflation. CPI is used by the government but RPI is and there has been talk of swapping from measuring inflation using CPI to RPI measuring inflation using CPI to RPI measuring inflation using CPI to RPI measurement.

Both measures use a representative proportion of aggregate household consumand they both record their prices for a variety of goods/services, suppliers and reindependent stores and large chains). They both use weighted prices and calcula price change from a base year.

The difference between the two measures is very complicated and does not need CPI uses a geometric average, whereas RPI uses an arithmetic average. But the noincludes housing costs and CPI includes energy costs which will show a bigger im



Consumer Price Index is calculated anthly using the duata, indices as he base year



COPYRIGHT PROTECTED

Zig Zag Education

Inflation and Income

The rate at which wages increase can differ from inflation (the rate at which price wages do not increase, then people will find their income cannot go as far and the paying their bills and weekly shop, etc. In some cases people may find they are used they could buy beforehand and will have to cut back. This can have a severe soci increase above inflation then overall they will be better off.

For example: If your income was £100, you spent £40 on the weekly shop for growould have £10 to spend and/or save as you wish (that's 10% of your income). He your income stays the same. Groceries would rise to £44 and bills would be £55; save as you wish. There is then disinflation, but prices have still risen by 5%. Groce £57.75; this equates to £103.95 but your income is still or \$\infty\$ 00.

However, if your income rose in line with infinition, they when bills and groceries rise to £110. You would have £11 to an adjust as you wish (that's 10% of your bills and groceries to rise to a your income would rise to £115.50 and you save as you with (that it are your income).

If your incorporate by more than inflation, then, although prices were rising, you would exceed the marginal increase in your spending. Therefore, you would be be

Limitations of using CPI to measure inflation

Quality

If the quality of a good/service increases, then its price will increase too. The increase in price will be recorded as inflation.

CPI has not accounted for the quality increase even though this may improve lives. For example, cars are much more advanced than they development of features such as air conditioning, parking assistance and chave become more expensive because these features cost money — but the comfortable and faster.

Shocks

Shocks may cause a temporary price change and this may give misleading overseas may interrupt trading which can cause shortages.

Differing Measures

CPI generally gives a higher inflation level than RPI. Using different inflation results and so it is important to policymakers, budgeters and business planthey use.

• Unrepresentative

A problem of using CPI to measure inflation comes from the maths. Average which could have potential importance. For explaining flation will be different just because everybody is different just because everybody is different just because each household construction of people, different genders are another in wealth levels. Inflation may may find instead that the availage prices have increased by 6%. Varying he calculated using the costs and Food Survey.

If the pince of a good increases, then people are likely to swap to a cheape represented clearly in the measures of inflation. Equally, CPI may overstate inflation if people may shop at 'discount' shops because they will pay lower measured by CPI.

Why is Inflation a Measure of Economic Performance?

Inflation can bring with it a variety of problems, as discussed above, and deflation growth, causing the economy to become stagnant. High levels of inflation are distand indicate a volatile market. Maintaining price stability can help maintain stab

Econ

the d

econc



Employment and Unemployment

Unemployment is a crucial economic indicator. If lots of people want to work but that the economy isn't functioning as well as it could. In this section we will look definitions of unemployment, as well as what causes it. Let's start with distinguisunemployment and *under*employment.

Employment: the name given to a used resource; a worker who has a job and is earning Unemployment: the name given to an unused resource; a worker who is economically Underemployment: a worker is employed, but this differs from employment because the human capital

Underemployment occurs when a representation of a job are less than the worker wishes do the surs, or the requirements of a job are less than the skillset that also level a worker possesses. Underemployment in an economy calculation level a worker possesses. Underemployment in an economy calculation level a worker possesses within its production possibility frontier (PPF) because, even if all resources are used, they are not used most efficiently. Recent university graduates are often

underemployed as financial struggles can cause
them to take jobs that are below

their skillsets.

ACTIVITY

The ONS define underemployment as those who are working fewer hours than they wish to work. Research the effects of the 2008 global financial crisis on underemployment.

Employment does not fall just because unemployment has risen; they are independently of each other. For example number of people who are economically a jobs, then the level of employment has rise remained the same.

Causes of Unemployment

• Structural Unemployment

When the demand for labour is low and doesn't meet the supply of labour then people will find they are unemployed. This can happen in a variety of ways and is caused by the immobility and inflexibility in labour. As economists, we assume the resources in an economy can shift between markets to react to price change. We assume there are no barriers to factor mobility. However, when industries decline, workers are unable to adapt to rising industries as of a mismatch in skills. Structural unemployment can also axis because the supply and demand of labour is distributed.

Friction Inch. Content

While the change from one job to another there is a period of unemplounement. It refers to people who are 'between jobs'. Most economic unemployment as a problem.

Seasonal Unemployment

Workers in tourist-reliant industries tend to suffer from seasonal unemplowill find they are out of work during certain periods. Generally, seasonal unand high in winter.

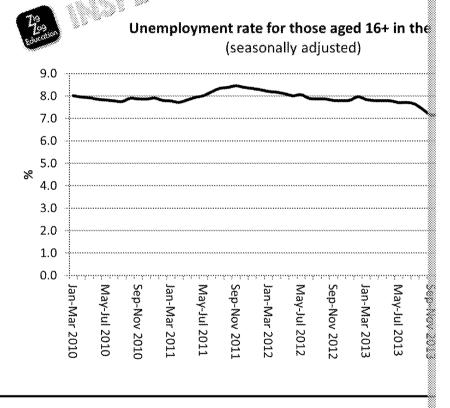


• Demand Deficiency and Cyclical Unemployment

Unemployment occurs when an economy is in recession. Recessions and but for now, recessions are when the economy shrinks and has falling GDF production and reduce costs, firms will reduce of resources they use; one people will lose their jobs and the level of unemployment will rise. This is falls, whether in a recession or not, because firms will restrict supply by mass labour) in order to meet the lower demand levels.

DATA

Below is a graph showing the recent history of unemployment in the UK. Observe high of over 8% following the financial crisis to about 5.5% at the start of 2015 been seasonally adjusted so any seasonal variation as plained above) has beout. A rate of about 5% is quite good. The valid new pool unemployment be slack – perhaps people prefer leist and the problem of the UK was 3.4% in 12.3%.



Real-wage Inflexibility

If the actual wage rate exceeds the market equition in vage rate then there will be an excess supply of librarinore people would be willing to supply at a partial people would be willing to purchase in the large excess supply of labour represents upon the contract of abour.

If the t equilibrium wage rate fell because demand for labour fell, for example, the actual wage rate may remain at the same point rather than falling. This is because the labour market is inflexible to changes and wages are 'sticky'. Sticky wages are explained again later in Topic 2.3.3, but for now,

sticky wages are wages that do not change or are slow to change. This hap accept falling wages because they are lower than their expectations. If the then it would follow the equilibrium more closely and unemployment wou

COPYRIGHT PROTECTED



Human C

worker, su

experience

human cap

human as Universitu

It increase

worker and

is the retu



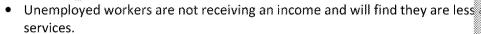
Further Your Economic Knowledge...

Natural Rate of Unemployment

The natural rate of unemployment is the level of unemployment that the labour market is in equilibrium. Any attempts to decrease unemployment that the temporary as the economy will gravitate towards this level in the those who want a job at the wage level and those who are willing and of unemployment. This means it includes frictional and structural une job at the current wage rate but are not working because they are wado not have matching skills to the current structure.

Inflation will increase if unemployment is 'an its natural rate. Equipment is greater than its 'at 'ra', we. For this reason the nationals of be called the non-analysis of the superflation rate of unemployment.

Effects o Hours



- Workers out of work will find their human capital falling as they forget skills
- Those who are unemployed for a long period of time will find it harder to acfor two reasons. Firstly, their human capital has fallen. Secondly, employers shortlisting candidates because they take the stance that 'if other employer would they waste time coming to the same conclusions?'.
- Claiming unemployment benefits has a stigma attached to it. Unemployed vesteem and higher levels of depression.

Consumers

Consumers will reduce their spending if their income falls.

Firms

- Falling incomes and falling spending will mean firms will find demand falls for revenue.
- However, if firms did want to increase supply there would be a pool of unus flatten their supply curves (make supply more elastic).

The Government

- Higher levels of unemployment mean there are more people claiming Jobse spending will increase.
- Lower employment means fewer people are lectively an income and the governue from incomes and national incomes are lectively an income and the governue from incomes and national incomes.
- Falling incomes and falling consumption mean the government will receive goods and services
- Falling velue and increased government spending will mean the gove expending will mean the gove expending will mean the government spending will mean the gove expending will mean the gove expending will mean the government spending will mean the gove expending will mean the gove expending will mean the government spending will mean the gove expending the gove expending will mean the gove expending the government of the gove expending the government of t

The Economy and Society

- High unemployment can cause people to lose confidence in the economy
- Falling incomes means living standards will fall
- Because government spending is made possible by the collection of taxes, in on benefits is likely to be followed by higher taxes in the future.
- Higher levels of national debt are likely to cause higher taxes.
- Research has found that higher levels of unemployment can lead to increas



- Communities can become run down if there are high levels of unemploymes can cause both local shops to close and a fall in living standards.
- Higher levels of unemployment can increase inequality and strengthen an ulathose without jobs lose their incomes and potentially fall into poverty.
- Unemployment, however, can have some advantages to it. Structural unem is improving and evolving as resources are being reshuffled to more product
- If there is lots of unemployed labour in the market, this means firms can explored because there is a pool of readily available workers. Equally, there will be not the cost of production remains relatively low.

The Benefits of Employment

If somebody becomes employed then they will gain an in the third increase in it easier to buy the goods and services that they ne at the provential improve living state to purchase the goods that make them hap to third will also increase living stars is that with increased incomes at ness it preased spending, which will benefit firm audience to buy their grants.

If more peo earning an income and firms are making more profits from the government will gain more revenue from taxes. This in turn will go back into the spending on roads or hospitals, for example. Equally, as employment rises, there the government can reduce its spending on unemployment benefits.

If people have jobs then it gives them a chance to improve their skillset and increased the worker but the overall economy will benefit from increased human capital be in human capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will improve efficiency and allow the economy to increase its many capital will be expected in the economy of the economy to increase its many capital will be expected in the economy of the econom

Measures of Unemployment

There are two main measures of unemployment: ILO unemployment rate and claimant count tend to differ by a greater amount when the economy is successful economy is declining.

ILO Unemployment Rate

The International Labour Organisation (ILO) defines unemployment as 'those wh seeking work but have not yet found it'. To identify the level of unemployment, to out to a sample of households. The survey asks whether people are in or out of wand whether they are seeking or not seeking work. From the sample an estimate can be calculated for the economy.

Claimant Count

This measures unemployment by counting the number of per ale who have regis 'unemployed' and are claiming Jobseeker's Allowance — e ligible to claim Job must be, of course, out of work but also economically (i.e. able to work and The claimant count is quite a broad — unemployment as it counts all the rather than just a sample of — e. Lawever, it is inaccurate at measuring the le economy because it is a unemployed who are economically inactive, i.e. those or unwilling the relaimant count generally underestimates the level of unit only counter who are claiming; there are many who are unemployed but Allowance. For many there is a stigma attached to 'being on the dole' and they plooking for a new job.



Migration and Employment

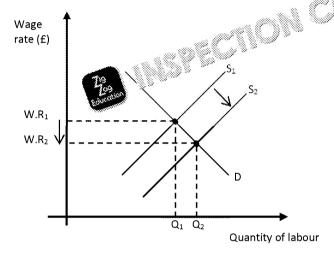
Immigration: an inward flow of people (people moving to a country)

Emigration: an outward flow of people (people moving away from a country)

Migration: movement of people between countries

Net
imn:
(pos
have
nege
have

Migration occurs for a variety of reasons and its effects differ depending on these reasons. Some may migrate to find work or for a specific job, such as a foreign company headhunting a worker, or migrate because a company help set up a new firm in a foreign market. Some may migrate in order to escape o countries. Others may migrate for greater opportunities or included and the countries of the



Those who immigrate to not affect employment number of people uner immigrated for a specified work will increase unemployed will not be immigration can fill sho increase levels of employed.

It can be argued that in the labour supply curve of labour to fall. It shou is a minimum wage in this level whatever the

Effect of Migration on the Economy

Increased immigration will increase demand in the economy, which will cause the economy to grow and create more jobs. Aggregate demand is discussed later in Topic 2.2. Economic growth can also occur from immigration because the resources available to an economy have increased. If the volume of labour resource available has increased then the economy can increase its maximum pr PPFs). Working immigrants will pay income taxes which means the government

Migration will carry human capital. Countries with high levels of immigration will find there is an influx of skills and education. Economies with high levels of emigration, on the other hand, may find themselves in a 'brain drain' with their most skilled and educated workers leaving to work abroad. Some worry that arfect mobility of labour will damage developing countries of their resources as workers are seaving the country drained of human capital.

Read Ko 2003 on http://w brain-d





Why is Unemployment a Measure of Economic Performance?

Low levels of unemployment are generally associated with economic growth because as the economy grows and expands, new industries, markets and firms are created which bring with them more jobs. More jobs means more people are employed and so low levels of unemployment can indicate the economy is expanding.

Learn N
Search
Latest c
the mo

Unemployment can also indicate high levels of poverty. This is because those without jobs have no income. The economy is performing well if to (relative or absolute) and more people are able to afford the goods or services the

Most relevantly, unemployment means there are unused urces within an economy is not producing its maximum to utilive potential and is room for improvement.



Research the Great Depression and the effects unemployment had during this period. The two links below are a good place to start...

- http://thegreatdepressioncauses.com/unemploymen
- http://bigmateo0.tripod.com/id2.html





Further Your Economic Knowledge...

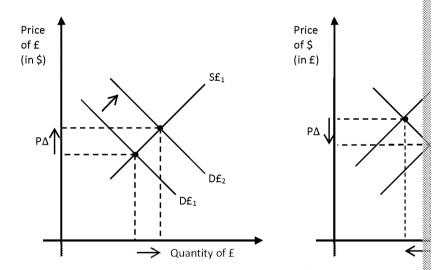
The Exchange Rate

When a good is bought, an amount of money is given over 'in exchanted the good is shown by the amount of money swapped for it. The exchange currency can be swapped (exchanged) for another currency, or, to in terms of another currency (e.g. \$).

If a US consumer decides to buy a British good then they will need to British currency (£) because the good is valued in £.

Let's look at the exchange rate of £ and \$ and how this transaction we equilibrium in the foreign exchange mark and bow this transaction we have used to be a supply of £ in the global economic power on the x-axis, 'quark on the y-axis, and the price of £ is shown in \$ as we want to know the graph on the price of \$ is shown on the y-axis, 'quantity of \$'; the price of \$ is shown on the y-axis, and the graph of \$ is shown on the y-axis, 'quantity of \$'; the price of \$ is shown on the y-axis, 'quantity of \$ is shown on the

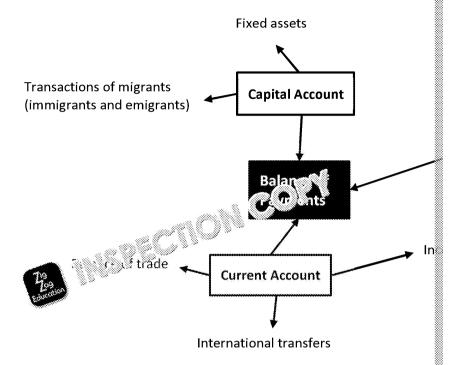
As the American wishes to buy £, the demand for £ increases from D £ in \$ to increase by $P\Delta$. The value of the £ has appreciated; this means (the ability of the £ to buy) has increased; the £ can buy more \$ than the supply of \$ increases from S_1 to S_2 and the price of \$ decreases value; this means the value of the \$ has decreased so its purchasing fewer £s.







Balance of Payments



The balance of payments is a record of the international trade between one ecobalance of payments is made up of three accounts which are responsible for variable will only need to know about one of these: the current account.

The current account records three aspects of trade. **International transfers** refer governments and international organisations. **Income payments** encompass emprofits, dividends and interest from overseas assets owned by nationals. The **bal** current account you will study in most depth.

The Current Account Balance of Trade



This looks at the proportion of exports compared to the proportion of imports. Topic 2.4 discussed how an import is a flow of money OUT of the economy. Therefore, an import appears as a negative on the current account. An export is a flow of money INTO the economy and, therefore, appears as a

positive on the current account.

If exports > imports then there would be more money flow into the economy; the '+' would be greater than the '-'. The volume a current account a

If imports > exports then there we will be money flowing **out** of the economithe '+'. This would be a seed of the economithe '+'.

There are notices ingo that affect the current account trade balance by affecting imports (M) and exports (X). Relative prices of goods in the global market, just the market, affect the demand and supply of a good. If there is high inflation in the U 'relatively' more expensive than eurozone goods. This means the number of UK consumers will fall, and the demand from UK consumers for imports (goods from consumers swap from buying the relatively expensive UK goods to the relatively exports fall and UK imports rise there will be a current account deficit, a worsenian improvement in a current account surplus.



Be careful when talking about the trade balance. If exports increase and imports exports are now bigger than imports. Imagine three different companies who exassume that the goods they trade have an equal monetary value. With all these will increase and their imports decrease; what will happen to their trade balance.

- 1. If **company 1** exported 100 fridges but imported 200 TVs, they would have a increased by 30 and their imports decreased by 40, they would export 130 f company would still have a trade deficit because, although exports have rise imports are still greater than exports. Their trade deficit has improved.
- 2. Imagine **company 2** export 150 office desks but import 100 dining room table Company 2's exports increase by 20 desks and imports decrease by 20 table change in exports and imports has resulted in a vicinity of the trade surplesks and import 80 dining room tables.
- 3. Imagine **company 3** export 90 and import 100 spades a trade deficit to

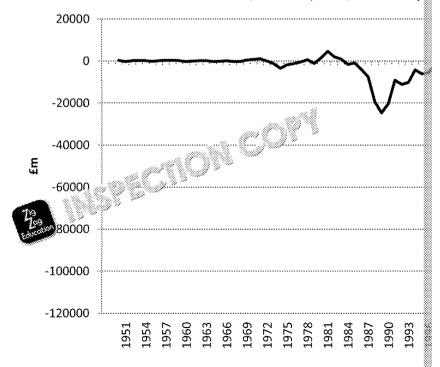
The point of parample is that a change in imports and exports cannot tell you deficit or sure without further information, i.e. without knowing their original much exports have changed in relation to imports, etc. It is much better to say 't deficit or improve a trade surplus', or 'this will either worsen a trade surplus or it typically has a current account deficit and so you can explain the results of a chardescribing their effects as worsening or improving a deficit.

Remember this, because exports and imports are important later for aggregate of surpluses and deficits will be discussed in Topic 2.6.

DATA

The diagram below shows the UK Balance of Payments on the current account from consistently run a deficit on the current account balance in recent years. This is no economy.

UK Balance of Payments: 1946–2014 current account balance, current prices, seasonally





Balancing the Balance of Payments

The balance of payments must always equal 0; it must always balance. Any surple offset by a deficit (–) in the other accounts. In UK history over the last few decade account deficit, usually due to the balance of trade (M>X). This may be balanced surplus in the financial account by selling UK assets overseas.

There is a balancing element to account for inaccurate data. This is called the 'ne which attempts to offset any errors in data collection and entry.

Interconnectedness of Economies

The buying of goods and services from abroad and the selling of our goods and se (international trade) can affect the domestic economy. The eans the consumptions will affect our economy just as the consumption behaviour of UK consciountries' economies. This highlights a manage and effect' between count 'interconnectedness' or 'interder and a land of economies and means that countries are connected; they are the analysis acceptible to and supported by each other.

Because on the ry's imports are another country's exports, their balance of transaction. The retically the sum of all the trade balances across the world should

Why is the Balance of Payments a Measure of Economic Performance?

The balance of payments can be used as a measure of economic performance as leaving an economy. An economy with a large deficit means more money is with lead to a deflation. This can be funded by a surplus in another account, such as the deficits or surpluses are unsustainable.





Questions: Measures of Economic Performance

- 1. What is the difference between inflation, deflation and disinflation.
- **2**. a) List and explain four effects of inflation.
 - b) Despite these effects, why is deflation worse?
- 3. What is a basket of goods?
- These questions refer to measuring inflation.
 - a) How is inflation measured using the CD3
 - b) What is another measure of in 1930
 - c) What are the limitations in a uring inflation?
 - d) Using the info and it is the table below:
 - i) Fi' i. a hassing columns.



ું હોતા is the rate of inflation in Year 1, Year 2 and Year Using inflation, deflation and disinflation, can you de years?

			Goods	
Year	Good name	Price	Items bought a	
	Good A	£5.00	20%	0.20
Year 1	Good B	£3.00	15%	0.15
(base year)	Good C	£0.50	35%	0.35
	Good D	£9.50	30%	0.30
	Good A	£5.25	21%	0.21
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Good B	£3.50	15%	0.15
Year 2	Good C	£0.65	35%	0.35
	Good D	£9.60	29%	0.29
	Good A	£5.75	21%	0.21
	Good B	£3.75	16%	0.16
Year 3	Good C	£0.75	35%	0.35
	Good D	£10.00	28%	0.28
	Good A	£5.75	18%	0.18
	Good B	£3.75		0.14
Year 4	Good C	75	35%	0.35
	$C_{A_{i,j}}$	£10.00	27%	0.27
	Jood E	£2.00	6%	0.06

- 5. What is the difference between employment, unemployment a
- 6. a) What are the five main causes of unemployment?
 - b) Can you explain these causes?
- 7. List and explain four effects of unemployment.



- 8. These questions refer to the measures of unemployment.
 - a) What are the two main measures of unemployment?
 - b) How do these measures attempt to quantify unemployme
 - c) How accurate are these measures?
- What is the difference between immigration, emigration and n
- **10**. Can you explain some effects of positive net migration on the
- 11. a) What is GDP?
 - b) How effective is GDP in measuring that standards and l
 - c) How do real and nominal GD (ff. 1)
 - d) How can GDP be adias account for population size?
- 12. According to meory of purchasing power parity, when is ex
- 13. is meant when economists say there is a current account
- 14. What is meant by the interconnectedness of economies?
- **15**. Why are inflation, economic growth, the balance of payments measures for economic performance?





Exam-style Questions 1: Measures of Econom

1.	Describe the difference between real GDP and nominal GDP.
2.	Which one of the following is correct?
	A In the case of constant prices (0% inflation) I GDP will rise for the case of constant prices (10% inflation) I GDP will rise for the case of constant prices (10% inflation).
	B Real GDP is adjusted using the uncare when rate. C Nominal GDP adjusts all your plante to a base year.
	D If inflation is positive, per anal GDP will rise faster than real GI
3.	Defin 4 arsinflation'.
4.	Explain one limitation of using GDP as a measure of growth.
5.	Name and explain briefly three different effects of inflation.
٥.	
	1
	2
	3



).	Describe the process of creating an index for inflation.
71	

The table below shove the count measure of unemployment for Northern to the UK as a whole, in March 2015.

	Total level of	Claimant co
	workforce (thousands)	Total level (thousands)
England	28,678	625.5
Wales	1,432	44.8
Scotland	2,704	78.1
Northern Ireland	843	43.4
United Kingdom	33,673	791.8

7.	Den	ne the claimant count measure of unemployment.
	•••••	
	•••••	

8.	Whi	ch one of the following cannot be inferred for information in th
	A	More people were unemployed in in wales.
	В	A higher proportion of racon. Northern Ireland were unemp

- Scotland or Wala Scotland C England See people in its workforce than Wales, Scotland
- D er proportion of Scottish people were unemployed than

9. Which **one** of the following is correct?

- A The CPI method of recording inflation aggregates price changes the economy.
- B CPI and RPI are identical measures.
- C Some goods are given more importance than others when calcu
- D CPI is always positive.



Aggregate Demand (2.

By the end of this topic, you should understand...

- √ The aggregate demand function (the components of aggregate demand)
- ✓ The relationship between savings and consumption
- ✓ Factors that affect the levels of consumption and their wider effects on aggregate.
- √ The difference between net and gross investment
- ✓ Factors that affect the levels of government spending and their wider effects on €
- ✓ Factors that affect the levels of exports and imports (net trade) and their wider e

In the last theme we looked at demand; in this toring each demand demand in the economy. Every individual near in demand curve and each demand good/service come together to cross and each demand curve:



$$AD = C + I + G + (X - M)$$
 15% 25% 1%

The components of AD are consumption (C), investment (I), government spendir imports (M), also known as net exports (NX). These are explained further in each demand curve, there is a difference between *movements along* and *shifts in* the occurs when you move to a different point on the curve, whereas a shift occurs wanother position. Shifts occur when the components of AD change.

Each component has a relative importance to aggregate demand. Consumption aggregate demand, whereas investment only makes up 15%. An equal change in have a disproportionate change in aggregate demand; for example, a 10% change have a far bigger effect on aggregate demand than a 10% change in net exports.

The Aggregate Demand Curve (AD)

A movement along the AD curve occurs because of a change in the price level and the economy simply moves to another point on the same curve. A shift in the curve occurs when there is a change in the components of aggregate demand and the whole curve moves either inwards or outwards.

There are two reasons why the aggregate demand curve slopes downwards.



Real-balance Effect

As the price level increases, the purious power of people's incomes fall. If people's buy as many items with their many and an energy will purchase fewer items as price level rises, aggregate demand falls.

International Competitiveness

As UK prices rise, UK goods will appear more expensive in relation to other fewer people will demand UK exports, and more domestic consumers will demand for exports increases and demand for imports decreases, then ag



X-axis: Economic Growth (GDP)

In theme one, the x-axis was the quantity of goods produced. In macro we look a and so we look at the total goods and services that were produced in an econom Domestic Product (real GDP) is the total amount of goods and services produced what is used for the x-axis.

Some AS/AD diagrams may have National Income (Y) on the x-axis; this is because income. Remember Topic 2.4; it measures the income households receive from the production. Real GDP includes exports and imports so is a more intricate measure circular flow diagram. A rise in real GDP means an economy has increased the anservices it produces; this indicates economic growth. This will be covered further

Inflation: a sustained rise in the general price level

Deflation: a sustained fall in see all price level

Disinflati I in inflation, i.e. a fall in the increase of general price level

Y-axic Tac Level/Inflation

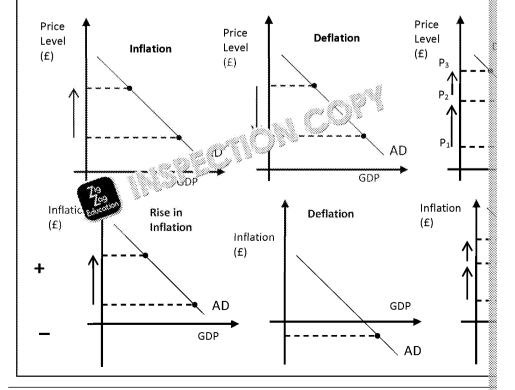
nowics talks about prices for is individual businesses or markets. Howe focus is on the 'price level' in the economy. With the value, but instead the rate of contract it has risen or fallen by.

The y-axis can be labelled 'Inflation' or 'Price Level'. At A Level standard, it is most common for you to label the axis as 'Price Level'. You may come across some diagrams labelled as 'Inflation' and you will need to distinguish between inflation, deflation and disinflation when presented with data in written, graphical, tabular and numerical forms. So, remember to think about the axis label before explaining the effects. To see the difference between the three in graphical form, see below.

Be careful!

If it is labelled 'Price Level', and the equilibrium level rises, this means there is falls, this means there is deflation. Disinflation is when price level rises (inflation previously.

However, if it is labelled 'Inflation', any point on the positive side of the y-axis point on the negative side of the y-axis would show deflation. If the equilibrium





Consumption (C)

When people buy goods/services, they are demanding goods/services just like w Consumption is the total amount of spending by households, individuals and congo out and consume more goods, this means consumption has increased, which and push the AD curve outwards. On the other hand, if consumption falls, aggrecurve shifts inwards. Consumption makes up the biggest proportion of aggregate most influential component.

The Main Influences on the Level of Consumption

Disposable Income

Disposable income is the proportion of their income people actually has the income left over once taxes have been spend of common and benefits have to spend this money on consuming the light posable income increases, people actually has to spend this money on consuming the light posable income increases, people actually has been spend and and another than the light posable income increases, people actually has been spend and another than the light posable income increases, people actually has been spend and any benefits have to spend this money on consuming the light posable income increases, people actually has the income people actually has

Margir ensity to Consume

Marginar propensity to consume (MPC) is the proportion of extra income that an individual spends on consumption. If incomes increase by £1,000 per annum, consumption will increase but it is unlikely to increase by £1,000. People don't tend to spend all their marginal income (all their extra bit of income). They may wish to save or invest a proportion of their marginal income. MPC is the amount of their extra income they will use for consumption.

Marg Prope Marg propos

that go

For example: The marginal propensity to consume is 0.3. This means that 30 be used for increased consumption. For every £1,000 increase in incomes, consumption.

Consumption Increase = Marginal Propensity to Consume ×

Interest Rates

In order to buy expensive goods such as houses or cars, people may have to money is expensive because not only do you have to pay back the money you pay back the interest which can be thought of as the cost of borrowing monthe extra amount that somebody pays back. If interest rates go up, borrowing expensive because you will have to pay back more. Equally, the interest rates

Consumption is likely to fall if interest rates go up. This is because it costs meffectively, become more expensive. Higher interest rates deter people from borrowing and buying expensive goods so consumptionalls. People will also be more tempted to save their money rathe and planning it, thus reducing consumption. Aggregate demand from the AD curve shifts inwards. Equally, if interest rates followed becomes less attractive and borrowing becomes cheaper. The story goes up, aggregate demand goes up, and the AD shifts inwards.

The wearth effect also comes into play with interest rates...

Wealth Effect

Remember the difference between wealth and income. We've already spok in income on consumption. Wealth, the stock of money somebody holds, fo of a house. If house prices increase then people feel wealthier because their and they now have more wealth. If people feel wealthier, they are more like people feel wealthier, consumption goes up, aggregate demand goes up and



If interest rates decrease and borrowing becomes cheaper, then the demand for houses could grow because people are more able to afford them. This will cause house prices to fall and thus make people feel less wealthy.

Inves means

to inc consu

Inves# сарас

Consumer Confidence

Consumer confidence refers to the level of confidence people have in the economy. If consumer confidence is low, then people profit have little faith in the economy; they believe the economy is not doing so well. If people believe the economy is unstable they are more likel® 'safety net'. They are less likely to spend their money if the future economy consumption will fall if confidence is low, and so aggragate demand will fall shift inwards.

If consumer confidence is higher the economy is doing we safe spending their was subsetting they believe the economy is stable. This consum ir , aggregate demand increases and the AD curve is pu

Relationship of Savings and Consumption

There are only two things that a person can do with their income: they can eithe that influence consumption can also influence savings. For example, if consumer will save their money because savings provide a 'safety net' during rough times. return on saving rises and so the opportunity cost of spending (rather than savin rates rise.

The savings ratio is the amount the average household saves in the UK. It is calcu save from their disposable income. The UK has a savings ratio of around 5%; this China which has a savings ratio of 30-40%.

Investment (I)

Investment is like consumption for firms. Firms invest money either to increase t they produce or to replace their old machines. If investment increases then this flow. Aggregate demand increases if investment increases and this will push the

Distinction between Gross and Net Investment

Investment is made either to buy more capital and increase production, or to re (production stays the same). Gross investment is the total amount spent on inve capital or buy additional capital. Net investment is the additional gains of capital replacement investment. Imagine a company had 50 marchines originally and investment. which were to replace broken machines. They we all a nave 60 machines; the but their net investment would be 10.73% - \, , If net investment is greater than shows an expansion and is the same with economic growth.



ACTIVITY

Read about the

accelerator theory.

http://www.economicshelp.org/blog/glos sary/accelerator-effect/



The Main Influences on the Level of Investment

• Rate of Economic Growth

The level of investment depends on the demand for the good. If people find they are likely to spend more. This means the demand for a product will incept this increase in demand, a firm will undertake net investment in order to incept the rate of economic growth can influence the level of investment because incomes increase and employment increases, leading to increasing demand order to keep up.

Business Expectation and Confidence: Keynes' Animal Spirits

This is similar to consumer confidence. Investing money means firms are unall but the reward is more money in the future, or so is the plan. Firms are less like confidence or low expectations of the economy back their spending on investment. If the conomy crashes or there is a sudde lose profits and those firms that a limit steed may be unable to cover their continuous for future are high, or firms have confidence in they we have allow about investing their money as they do not feel they will necontinuous with less 'safety-net' money in order to receive bigger returns.

Keynes coined the term 'animal spirits' to explain economic agents' behavior psychology teamed with economics in order to account for irrational behaviorisky ventures despite logic or maths because of their irrational instinct or conversity and investing if they are hesitant, even if the maths shows it is a good investing be irrational or even reckless; animal spirits attempts to calculate and conversity investment decisions firms make.

Exports

There is a variety of factors that increase the level of exports, as will be disc demand for exports increases then firms producing exported goods will nee production to meet demand. Increasing exports will boost the economy; this incomes rising and will increase their demand. Firms will have to increase production via net investment.

Interest Rates

Firms may need to borrow money in order to invest. Interest rates determine how much extra money a firm pays back when it borrows money. If interest rates go up, the cost of borrowing increases and firms are less likely to invest. Equally, investing money has an firm gets from investing needs to outweigh the interest the firm would rece Because interest rates affect the amount of money a firm gains from saving investment is twofold. If interest rates go up, investing b comes more expealso increases, therefore investment levels fall.

Access to Credit

In order to make an was mean, a firm needs money. If a firm does not have borrow, and condition it will pay it back in the future. This is wit is the to borrow; it is money available to firms. If firms have easy accobtain the runds needed to invest and are therefore more likely to. If there investment will fall and aggregate demand will shift inwards because firms funds they need to invest.

Influence of Government and Regulation

Because the government has a large influence on the economy and can chall can determine the outcome of an investment. If the government creates reparticular investment then firms are less likely to invest. Equally, if governments then firms are more likely to invest.

COPYRIGHT PROTECTED



There 🖔

Government Expenditure (G)

Government spending is mostly autonomous, i.e. it is unaffected by other variables such as interest rates or confidence. Government expenditure is determined by the government.

The Main Influences on the Level of Government Expenditure

• Trade Cycle (Further explanation in Topic 2.5)

As the economy goes into recession, people lose their jobs and firms find their revenues falling. This means there is less tax revenue for the government and the injection of Equally, as people become unemployed.

more on unemploymuses lits. There will be a budget deficited the government spends more

than in the vicinities likely to lead to (increasing) government del

စ ႏွမ္း၊t´s expenditure.

As the economy goes into a boom, there will be more jobs for people, so unemployed people will increase their spending. Firms will find their revenues receive more tax revenue as there are more firms and employed workers pefall as there is less unemployment benefits expenditure. There will be a bud receives more tax than it spends.

The Golden Rule justifies government debt as long as over the business cyclerecession) the debt build-up in the recession is cancelled out by the budget

• Fiscal Policy (further explained in Topic 2.6.2)

The government can directly change the amount it spends in the economy as the interest rate is determined by monetary policy, the level of taxation as spending is determined by fiscal policy. Both policies are used to control, stamanipulate the economy; if the government decides to change its fiscal appropriate government expenditure in the economy will change.

If net trade this does surplus. It was in a temperature the compared

It is bette will decress lead to a se





Net Trade (X – M)

Net trade is the sum total of income flowing out of the economy from imports a flowing into the economy from exports. If exports increase and/or imports fall, n which increases aggregate demand. If there is more money coming into the ecor exports are greater than imports) then there is a trade surplus. This was discusses Topic 2.1.4. If imports are greater than exports then there is a trade deficit. The 🎆 imports bought not only depends on their price, but also the price of foreign god goods are cheaper relative to foreign goods then we would say 'UK goods are m foreign demand for UK exports would increase (as foreign consumers would swi demand for imports would fall (as domestic consumers would switch from foreign goods to domestic goods). Exports we increase, imports would decrease, net trade would really and If taxes de

there would be a trade surplus (X>M), aggreating a command would increase and the AD curve would in the high aids.

The Mair le \ Jn the (Net) Trade Balance

Just like wit dőmestic market, prices can play a big factor in the global market. People are more likely to choose the good that is cheaper. The important part to remember about this sentence is: it is the good that appears cheaper relative to other goods. There are many things that can affect the relative prices of goods on the global market, as will be discussed in a minute. One

assumption we make as economists is that there are no transport costs. A good cheaper than a good produced in France, but once the costs of posting have bee more expensive than the French good.

Real Income

Normal goods are goods that increase in demand by a normal amount wher are normal goods, therefore as UK real incomes rise, the demand for import the UK trade deficit.

Exchange Rates

If the £ appreciates, then UK goods will appear more expensive in comparison to foreign goods (assuming their currency stays the same; ceteris paribus). This means demand for UK goods will fall and demand for foreign goods will rise; demand for UK exports will fall and demand for imports will rise. Exports will decrease, imports will increase and so net trade and aggregate demand will decrease. If exports fall and imports rise this could lead to a trade deficit.

If the £ depreciates, UK goods appear cheap a in the labor to foreign goods. rise, and domestic consumers will simes by from buying imports so the de rise and imports fall which wear. Learnade rises and aggregate demand do curve outwards.

/Jorld Economy

A recession usually results in falling price level (disinflation and potentially c economy in recession is likely to have more competitive goods. Also, in a re to falling consumption of both foreign and domestic goods.

If the world economy is in recession then domestic consumers will buy fewer consumption of domestic goods falling) and foreign consumers will buy few balance is unknown, i.e. whether imports fall more than exports leading to exports fall more than imports, because exports and imports have fallen, ne does aggregate demand.

spending i

may go int depends o

and taxes,

and how b

Instead it i

either a de

a budget d

 P^*

re

th

co:

tc

ex.

COPYRIGHT PROTECTED

Page 38 of 102

If France is in a recession, but the UK is not, the UK will see exports to Francincomes have fallen. Equally, French goods will probably appear cheaper and French imports. With decreasing exports and increasing imports there is like

• Degree of Protectionism

Governments may put in place protectionism in order to protect the domes competition. They do this by distorting the price of UK goods and/or the pri

By giving subsidies, the government can reduce the price of UK goods; demand the demand for imports will fall as domestic consumers switch to buyin imports decrease, meaning overall net trade increases and so too does dem

By taxing imports, governments can increase it or sol foreign goods relationsumers will switch to domestic grant and the demand for imports will fall too will aggregate demand.

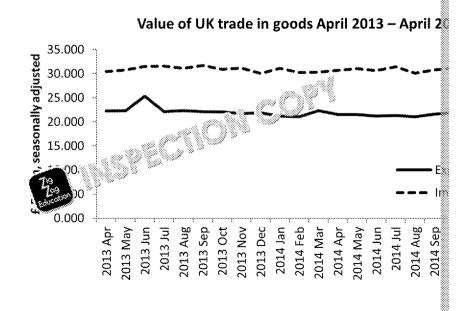
The same ommodity would depend on its price becase it is a homogeneous good. However, some countries may sell heterogeneous goods and therefore the sale of these goods wold depend on factors other than the price: 'non-price factors'. Countries may sell specialised equipment that has been patented. The result of this is that no other country or firm can make it, and therefore the export or import of this good will depend on countries' need to

Commodity: A good that such as milk or wheat, are little difference between estarmer is very similar to inability to distinguish bettey are called 'homogenest'

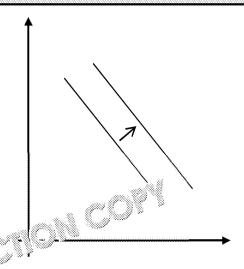
Goods that can be different example, smartphones con goods because each smart system, design, tariff, can

carry out the specialised task the machine is designed for and the machine's

The chart below shows the recent history of the UK's volume of UK has consistently exported less than it imports in recent years; it has a negliabout the effects of this disparity with reference to the ideas mentioned above







- 1. programs diagram showing aggregate demand by labelling axis.
 - a) What has happened to this curve?
 - b) i) What four main factors can shift the AD curve?
 - ii) For each factor, explain 2–3 reasons why the curve wa
- 2. Explain how rising interest rates can affect aggregate demand.
- 3. What is the wealth effect?
- 4. a) What is the relationship between savings and consumption
 - b) What is meant by the marginal propensity to consume?
- 5. a) How does net investment differ from gross investment?
 - A firm has five machines; three of them are old and the fir them. The firm has invested in five more machines.
 - i) What is the firm's net investment?
 - ii) What is the firm's gross investment?
- 6. What does Keynes' idea of animal spirits refer to?
- 7. What is the Golden Rule?
- 8. Draw a graph for the relation in processing consumption and reconsumption and reconsumption and reconsumption are supported by the second consumption are supported by the seco
- 9. Particle Pates being on the y-axis, draw a graph to show the y-axis and y-axis and y-axis a graph to y-axis.
- **10.** If Marcy's income rose from £25,000 per annum to £30,000 per for the year increased from £9,000 to £11,000:
 - a) What is her marginal propensity to consume?
 - b) If her marginal propensity to consume was instead 0.5, wl consumption to?



Aggregate Supply (2.3

By the end of this topic, you should understand...

- ✓ The distinction between movements along and shifts of the AS curve
- ✓ The difference between short run and long run
- ✓ The factors that influence short-run aggregate supply
- ✓ The factors that influence long-run aggregate supply
- ✓ The different-shaped long-run aggregate supply curves
- Different causes of inflation
 - Demand-pull
 - Cost-push
- Why the money supply grows

In the last theme we looked at supply; in this took at aggregate supply we conomy. Just like the supply cure to a difference between movements alomovement along occurs to a different point on the curve, where curve moves and the curve moves are took at supply we have to a different point on the curve, where curve moves are took at supply we have a different point on the curve, where curve moves are took at supply we have a different point on the curve, where

Aggregate sum is the sum total of all the supply curves for every firm, every m supply, firms would switch to producing the goods with the greatest price. Howe macro looks at aggregate supply, firms switching from one industry to another m to the overall supply from the economy. Aggregate supply links with Topic 1.1.4 maximum productive potential were discussed.

There are various schools of thought within economics and some have conflicting exam you need to be able to differentiate between the Keynesian AS curve and the schools have different-shaped AS curves. Firstly, in this topic you need to undersupport short-run and long-run aggregate supply.

Short Run and Long Run

Short run: at least one factor of production is fixed, they are not all variable

Long run: all factor

Be careful! Long run and short run do not have a set length of time. They are instead the names given to periods with differing variables.

Keynes said that the idea of the *long run* was famously explaining that 'in the long run, was serves a purpose to us, as economists, to disthe short run. Let's consider an example:

The fisherm cia crease his supply of fish. He buys more bait: one factor capital, land bour are still constant; this is the **short run**.

He buys a better fishing rod that allows him to catch bigger fish: another factor of and land are still constant; this is the **short run**.

He buys more fishing rods and asks his children to help him catch more fish: two schanged (labour has changed and capital has changed again); land is still consta



The river also runs through his neighbour's garden. He decides to buy some of his increase the amount of river that he can fish from. Now, all the factors of productions run.

Short-run aggregate supply is the total amount of goods and services supplied in Firms are able to change most of their factors of production to react to price characters amount of goods and services supplied in the economy in the **long run**. factors of production to react to price change. If all factors of production can be able to increase aggregate supply to meet its maximum productive potential. A purply (LRAS) curve means the economy is producing at its maximum productive

Factors that Influence the Short-run Aggrega Jupply (SRAS)

These influences will affect firms in the short run where they can change some of Short-run aggregate supply can easily beaution.

The short-representation of th

The SRAS curve can be shifted up or down as shown in the diagram to the right. Shifts in the SRAS curve can be caused by various factors:

Raw Materials and Energy

If the price of the raw materials used in the production of a good/service increas will increase. Firms will reduce supply at each and every price level. The short-ruinwards if the costs of the raw materials increased.

Energy is an influential cost within the economy because all firms need energy to Factories and offices need electricity to light and heat rooms, and for capital succomputers, for example. If energy prices increase, firms may cut back on supply. see the aggregate supply curve shift inwards.

Exchange Rates

The exchange rate will affect the prices of export application of the exchange rate changes so the aggregate supply will fall a simple motion be able to produce the same numprice level.



tes

The government may change the tax rate on certain goods or add tax Topic 1.2.9; increasing a tax will increase the costs of production and



Factors that Influence the Long-run Aggregate Supply (LRAS)

In the long run all factors of production will be changed. Therefore only factors to productive potential of the economy affect long-run aggregate supply.

Technological Advances

Technological advances tend to mean there is an improvement in technology and More productive capital means output per unit is greater, and therefore the max economy is greater and long-run aggregate supply will increase.

Relative Productivity

Productivity refers to the amount of output a single unit of a resource could produce five units of a good in one working day, but through ither training or ne the worker could now produce eight units of a good in calconomic working day, the working day, the working day, the resources in an economic memore productive, i.e. they car economy's long-run aggregate apply a marcrease.

Education (ili Maman Capital)

The ability conference is a constant variable and can only really be improve economy, such as school leaving age. If the workforce is more educated or obtainmore productive. A more productive workforce will be able to produce more goo run aggregate supply curve will increase.

Government Regulation

The government can add or remove regulations that will affect the efficiency of increases the level of health and safety in order to protect workers, then this couprocesses, making them less efficient, or stop potentially quick but unsafe process number of goods produced.

Demographic and Migration

The labour supply available to an economy is often fixed. If all workers are employed goods an economy can produce. Migration allows the supply of labour to increase increase or decrease long-run aggregate supply respectively. The age of the populage is 18 to 65 by UK standards, and so if migration or simply time means the economy working age, then this will cause little increase to the maximum productive people, either from a previous baby boom or immigration, is likely to increase lost because this has increased the supply of workers.

Competition Policy

If there is greater competition within markets then firms will have to attract more that are cheaper and/or better than their rivals. This will drive firms to find more of producing in order to cut costs to obtain lower price. The state increase coencourage productivity gains and thereby increase increase increase supply.





AS Curves

How do Classical Economists and Keynesians Differ?

Classical economists believe that in the long run markets will always find equilibrium. In the labour market a fall in demand for labour (D_L) would lead to a fall in the wage rate and employment; the market adjusts. The diagram shows the demand and supply for the labour market with wage rates (price of labour) on the y-axis and employment (quantity of labour used) on the x-axis. If the demand for labour falls, the D_L curve shifts into D_{L2} , and employment falls as fewer firms are willing to pay this wage rate for workers. There is an excess of supply of workers and unemployed workers

Sticky Wages: This is the idea that wage rates will not change. It is difficult to lower wage expectations because workers are us in higher wages.

Other thin the as trade unions or minimum wages, can be prevent wages from falling.

will adjust heir 'wage and a sons' to accept jobs where a sons' to accept jobs where a sons' to accept jobs where a son as these new (lower) wages for where is no une employed are not willing to sulvages.

Keynesians instead believe that

falls to D_{L2}, workers will not adjust their wage expectations and the wage rate will wages'. The excess supply of labour remains (unemployment) and will only shring

These two schools of thought and their differing assumptions create two differencurves (LRAS).

Classical LRAS Curve (C.LRAS)

Classical economists believe that aggregate supply is fixed. If all resources are being used efficiently, then the economy is on the PPF curve and it is not possible to produce any more goods. At this point aggregate supply is price inelastic. The economy cannot produce any more goods/services and so aggregate supply will not change with change in price. If aggregate demand goes up but aggregate supply cannot increase to meet this, then the rationing function of the market comes into play (Topic 1.2.7). If demand increases then more people will buy goods; supply can't increase so there will be a shortage of goods. Some consumers would be willing to pay higher prices to ensure they get the goods. Firms, assuming perfect knowledge, will increase prices but their supply won't change.

The diagram shows that any increase in AD will only result in crice-level changes and not output. The equilibrium point is always a well employment (whe efficiently) and the market will always revert back to a plint on the LRAS. The culture memployment because at this point of the point of the economy to be worsome unemployment exists. So the explanation of the natural rate of unemployment exists.





Keynesian LRAS Curve (K.LRAS)

John Maynard Keynes built a new long-run aggregate supply curve, which could explain a market that had reached equilibrium but was below full employment. The Keynesian AS curve assumes wages are sticky.

Section A of the curve shows an inelastic aggregate supply. At any point on this curve, the economy is at full employment (aka the economy is at full capacity) and any increase in AD will only result in increasing price and no increase in output. This is because, in order to increase output, firms must offer higher wages than existing wages to encourage workers to leave their jobs a ork for them instead. Overall, output will not rise because a cource has simply moved from producing one gradient another, but prices have gone up.

Price Level (£)

Section B standard aggregate supply. Here the economy is likely to be decresources a prior ployed. At this point there is spare capacity to grow. Output increasing prices. This is because there is no competition for resources and a firm gain more. Overall output of the economy will increase but price level will not.

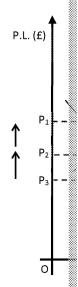
Section C, the middle section, is the part that brings the two extremes together. trade-off between increased GDP and higher price level. This is a well-known relation will increase if there is economic growth. This will be discussed later in

Classical economists believe equilibrium would always gravitate towards full empthey believe everything will adapt to the changes, such as workers accepting low believed there were frictions within the market that would prevent it from adjustmeant that the market could be in equilibrium (where AD meets AS), but this could be in equilibrium (where AD meets AS), but this could be increase their consumption and AD is unlikely to move. Prices stay low, costs of there is no increasing demand to meet, so firms are unlikely to change their suppoper resources.

LRAS and SAS Curves (Adapted Classical)

Classical economists believe the market will gravitate towards equilibrium at full believe this will happen straight away. Some classical economists believe there not market will find equilibrium. Friedman is a famous economist from the mone not agree with Keynes and created this model as a response.

The classical model can be adapted to include a short-run aggregate supply (SRAS) curve to explain the mar' at it is temporarily out of equilibrium and not care RAL curve. This can explain the market not only wha അവ് പ്രച്ച് full employment, but also when it is producing it is "findemployment (outside the PPF). If aggregate in the Loses and shifts the AD curve out, then the economy along the SRAS curve so that more goods nove along the SRAS curve so that more goods the econom are produced to meet this increase of demand (Ye to Y1). Production is above full employment. This can be done temporarily by, for example, paying overtime to workers to encourage them to work more hours. However, overtime pay for 'out-of-hours work' is more expensive and it is unlikely firms will stay at this point. Workers will increase their wage expectations and the wage rate will increase. This means the costs of production will increase and the SRAS curve will shift back in until it meets the equilibrium point C on the LRAS curve.





Causes of Inflation

Now that you have learnt about the AS and AD curve, it is possible to explain the AS/AD diagrams (see overleaf). Factors that cause inflation can be separated into affect aggregate demand and those that affect aggregate supply.

Demand-pull Inflation

Demand-pull inflation occurs when aggregate demand increases and pulls up the diagram 1 where AD_1 shifts out to AD_2 and prices rise from P_1 to P_2 . This happens supply, producers will find they are running into shortages. In order to ration the pulled upwards with demand. It is more prominent when the economy is near full people have an income and can therefore go out and specific states.

Demand-pull inflation occurs when any constant of aggregate demand increase, maybe because income the hashes when consumption will increase and the outwards. If confidence the hashes we cations are high then firms and consumers are and investry of the high the AD curve outwards and pull up price level.

Cost-push inflation

Cost-push inflation occurs when aggregate supply decreases and the price level is seen on diagram 2 where AS_1 shifts into AS_2 and prices rise from P_1 to P_2 . This hap increase. In order to cover these new costs, firms will push the costs on to the costs higher prices.

Cost-push inflation occurs when any of the factors of production increase in cost materials such as oil are one of the most common sources of cost-push inflation. rates – perhaps due to trade union pressure – which increase firms' costs and purises can also cause cost-push inflation if firms have to pass the tax onto consum

Growth in Money Supply

Another cause of inflation is an increase in the supply of money. This causes inflatement or supply. Remember the circular flow of income diagram; if there was a economy would inflate.

If the money supplies increase then there is more money around to purchase go exceeds the number of goods and services in the economy then this can cause in there was too much money chasing too few goods'. By this, it is meant that if pethere are goods and services available to purchase, consumers will end up offeriensure they can have them. Firms will then rise their prices to meet their increase to meet increased demand). Also, the demand for labour will increase as firms at meet this increased ability to purchase goods and services. It is will cause a rise costs of production.





Diagram 1: Demand-pull inflation

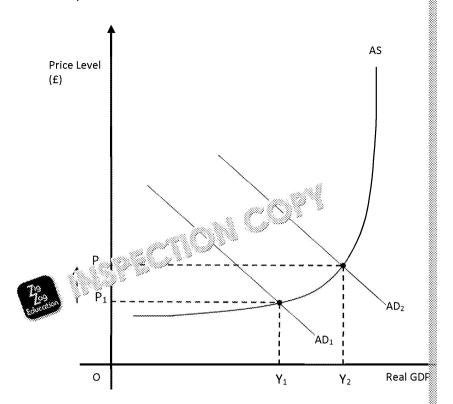
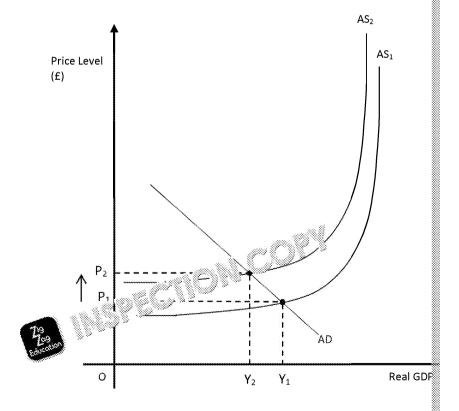
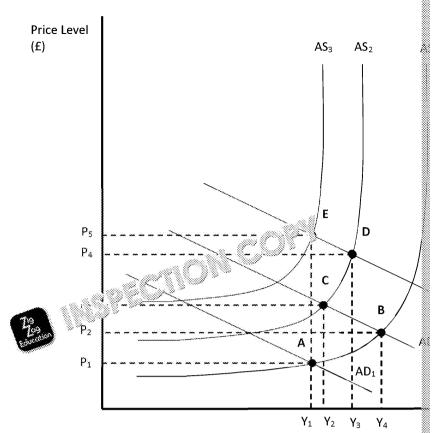


Diagram 2: Cost-push Inflation









Further Your Economic Knowledge

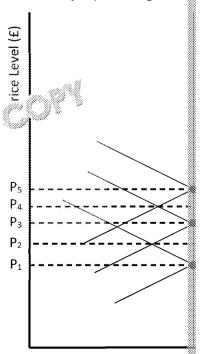
Wage-price Spiral

The wage–price spiral is a process that occurs when demand-pull and tandem. Let's start at **Point A**. Here, prices are at P_1 . Demand in the ewhatever reason and so the aggregate demand curve shifts from AD **Point B** and prices have risen to P_2 . The cost of living has gone up arwages from the employers. The aggregate supply curve now shifts in **Point C** and there has been cost-push inflation, prices have risen to Formoney from their increased income, they can increase their consump curve pushes out again to AD_3 . Now the economy is producing at **Po**

demand-pull inflation, prices have risen again to P₄. To cover these rising prices, workers will demand higher wages, causing the aggregate supply curve to shift into AS₃. Now the economy is producing at **Point E** and there has been cost-push inflation been cost-push in flation been cost-push in flation beautiful again and to P₅. The same cur again and

to P. Think Scur again and Tab is shown graphically and below using a

Keynesian AS/AD curve (above) and a classical AS/AD curve (below).





Questions: Aggregate Supply

- 1. a) When is a firm in the long run and the short run?
 - b) What factors could affect long-run aggregate supply?
 - c) What factors could affect short-run aggregate supply?
- 2. a) How do Keynesian and classical assumptions in the labou
 - b) i) Draw a classical aggregate supply diagram.
 - ii) Explain what the curves show.
 - c) i) Draw a Keynesian aggregate supply diagram.
 - ii) Explain what the curves show.
- 3. a) What are the the actions of inflation?
 - b) Using Language explain these causes.



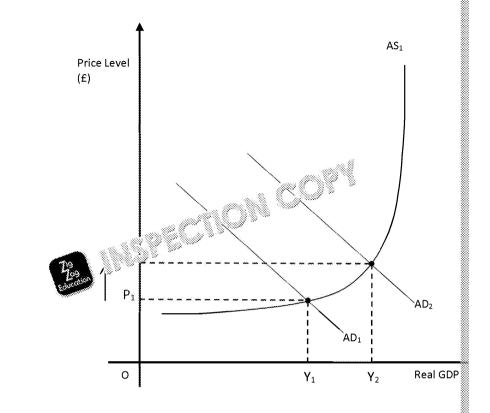


Exam-style Questions 2: Aggregate Demand and

L 	Define the term 'disposable income'.
٨	and Alexander and Academy Col. Col. The American Inc. 1
	In individual receives a windfall of £1,600. Their marginal propalities \mathcal{L} and \mathcal{L} and \mathcal{L} and \mathcal{L} will use
C.	unness that the individual chapees to save all of the outro incor
	uppose that the individual chooses to save all of the extra incorne MPC be?
•	
••	
••	
E	xplain one factor that may influence the level of aggregate inve
_	
L	Define the term 'aggregate supply'.
••	



6. What type of inflation is shown by the diagram below?







National Income (2.4

By the end of this topic, you should understand...

- ✓ The multiplier
- √ The idea of real national output
- ✓ The difference between wealth and income
- ✓ The circular flow diagram
- \checkmark The difference between an injection and a withdrawal
- The three injections and three withdrawals

One of the most important ideas that you will cover in macro-conomics is the coshort, it is the final total output of all goods and service acceded in one year in in depth. When starting to think about the idea it sin, tant to distinguish between boxes below.

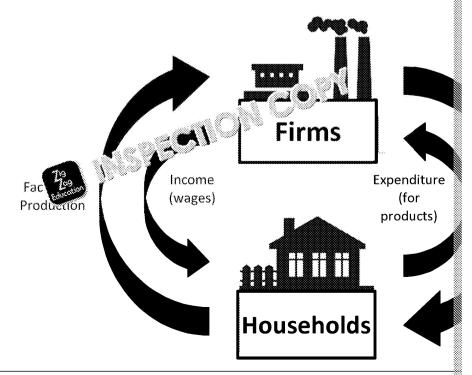
Income is the money the series of service or in exchange for the exchange for the rent from a property. It moves from one agent to another; it is seen as a flow of money.

Wealth is the money that a per from wages or investment retuis seen as a stock as it is monesavings accounts or items such

Remember: National income is the total amount of income flowing around the eased to purchase goods and services, national income can also be used to show to the total amount of output.

Wealth can create income; the money and items stored can generate a flow of nexample to think of is a house. The house is wealth, it is a stock/store of wealth, to other people you can receive an income back from it in the form of rent.

With this in mind, let's look at the diagram that shows the circular flow of incomassumes a very simple economy (remember the importance of assumptions in To and no interaction with other economies, there are only households and firms. Be people of any amount, one individual or a family. Households receive income from and spend this income buying the goods and services produced by firms. Firms reas labour, from households and produce goods and services that are bought by coand round the economy from firms to households.



COPYRIGHT PROTECTED

Zig Zag Education

Injections and Withdrawals

This is a very simplified model of the economy. In reality, firms do much more the produce goods; similarly, consumers do more than spend their wages on goods. That may intervene and we do interact with other economies.

Think of the circular flow of income diagram as a circular flow of water. Waters for income, but you can 'inject' more water into the system and the system will grow water from the system and the system will shrink. If the total sum of injections is withdrawals, then more money will be flowing into the economy and so it will grow withdrawals is bigger than the total sum of injections, then more money will be so it will shrink.

Withdrawals are things that economic as a. Thur the system) do with their income of the circular flow. By taking make you will take the circular flow it is no longer going around

Injections that outside economic agents do with their incomes that result in circular flow mere is now more money going around the system.

Injections and withdrawals can be grouped together into opposite pairs:

Savings and Investments

Savings are a withdrawal because instead of spending income and keeping economy, people may instead put it into a savings account. This takes it is however, are injections because they put money into the economy in order production. The level of savings and investments can be influenced indirection. If interest rates go up, people are more likely to save because their savings account. If interest rates go up, investment is likely to fall be back more money when they borrow it. To further your knowledge and up marginal efficiency of capital curve that follows later.

Taxes and Government Spending

These injections and withdrawals can be directly influenced by the gover because instead of letting income flow around the economy, a proportion system and given to the government. Government spending is an injection government puts into the economy in order to provide things such as schools are such as s

Imports and Exports

In reality our economy does interact with other economies. When we buy foreign goods we send money from or an my to the other economy and receive a good from their among into ours. The good is an imported good that is a money for it is a withdrawal. We may the good that is bought by an economic agent in anotic and our good is exported to their economy.



A circular flow diagram of two economies with injections and w Government Investment Taxes Spending Savings **Firms** Production Income Expenditure **Households**

COPYRIGHT PROTECTED



Government

Firms

Households

Income

Spending

Imports/Exports

Factors of

Production

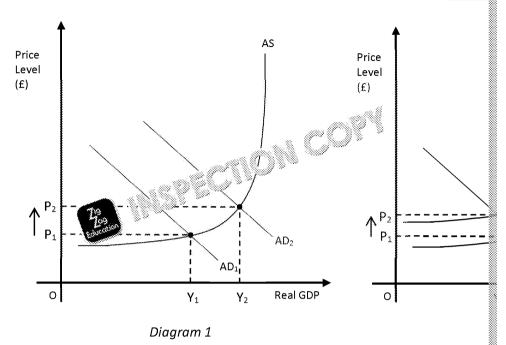
Expenditure

Taxes

Real National Output

Using diagrams 1 and 2, this section will explain how changes in aggregate demand and supply will change the national output in an economy. This concept is similar to the micro demand and supply diagram.





Real national output is the output of the economy once inflation has been accoustabove inflation (the value of the total number of goods is greater, even including indicates an increase in amount of goods and services produced, i.e. economic g

Equilibrium levels of real national output occur when planned aggregate demand supply and the two curves intersect. A change in aggregate demand or aggregate equilibrium level of real national output.

If aggregate demand has increased from AD_1 to AD_2 , then firms within the economeet this new demand for their goods. This results in a movement along the AS where the new AD curve intersects it. At this point the market is in equilibrium a has increased.

If aggregate demand falls from AD₂ to AD₁, then firms within the economy will decences unconsumed products they would be left with from the lack of demand. The AS curve until it meets the point where the new AD constitution again and real national output has decenced.

If aggregate supply increases, he was supply eax rates have been cut or technol production, then firms and a supply goods at a cheaper price. This is more levels of corporation and a market as the increase in customers may increase price would ver prices more consumers are willing to buy the good, which AD curve until treaches the new AS curve. The market is in equilibrium again and has increased.

If aggregate supply decreases, perhaps because a natural disaster has damaged then costs of production will increase and as a response firms will increase price consumers are willing to buy the good, which results in a movement along the A AS curve. The market is in equilibrium again and real national output has decreased



The Multiplier

Let's start with an example to illustrate the idea of the multiplier:

The government decides to build more colleges and sixth forms to encourage education. They have £20 million that they give to various building contracted £20 million into the economy. The economy grows by £20 million. The contract builders in return for their labour. The income flows from firms to household households will then spend their incomes on bills to buy electricity for their from households to firms.

As the money goes round and round, it generates more and ore income. The economy absorbs the original injection and grade income then flows around the economy and the economy and account and grade grade.

Th aft an

The money may be saved spent, or it may be spent on imports instead of decretic spent spent, or it may be spent on imports will be taxed means the economy will keep growing and multiplying until all withdrawn.

The size of the multiplier depends on two things: the amount of income that is in be withdrawn each time. If injections are large, then the economy will grow by a are large then the economy won't grow by much each time. This creates the multiplier than the proportion of each.

A formula for the multiplier can be derived to give policymakers an idea of how with an injection. Something multiplied by 1 equals the same amount. The multiplied by a little less than the original amount because some income has been leaked 1 divided by the amount of income that is likely to be withdrawn. This is shown be

$$\mbox{Multiplier} = \frac{1}{\mbox{marginal propensity to withdraw}}$$

Marginal propensity to withdraw (MPW) is the proportion of income that will be The income withdrawn from the economy will be spent differently on each withdifferent marginal propensity. The higher these marginal propensities, the more the multiplier will be smaller and the economy won't grow by as much.

The marginal propensity to save (MPS) = the proportion of income that will be leaked.

The marginal propensity to tax (MPT) = the proportion of income that will be leaked.

The marginal propensity to import (MPM) = the properties of income that will be leaked.

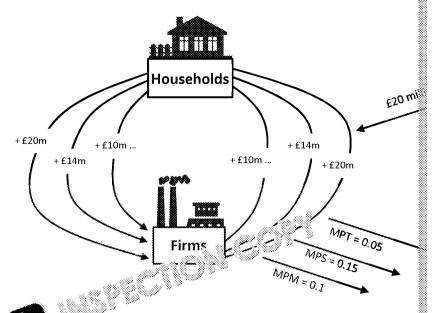
Above are the marginal propensition with Model and MPS + MPT + MPM). The marginal propensity to with MODE amarginal propensity to withdraw. MPC is the propensity to withdraw. MPC is the propensity to withdraw. MPC is the propensity to withdraw and services – the proportion of income that will take away the content of the proportion of the proportion of the proportion of the proportion of the properties of the proportion of the proportion of the properties with through either taxing, saving or importing.

Below are the two formulas you need to know for your exam to work out the muleconomy will grow by from an injection.

$$MPW = 1 - MPC = MPS + MPT + MPM$$

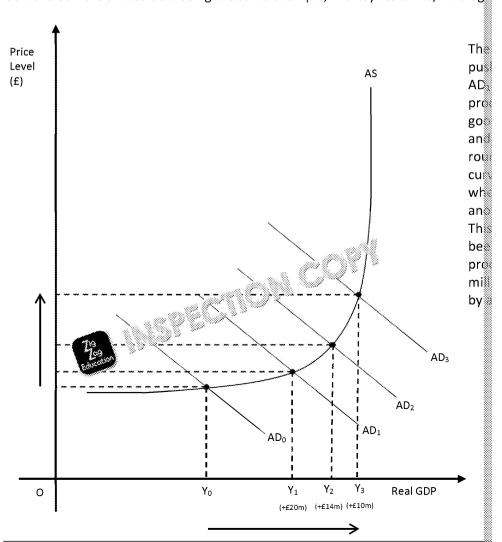
$$Multiplier = \frac{1}{MPW} = \frac{1}{(1 - MPC)}$$





If, in the experience at the beginning, MPT was 0.05, MPS was 0.15 and MPM be 0.3 and the multiplier would be about 3. The economy would increase output injection. £20 million would go round the economy and for every £1, 5p would be saved and 10p would be spent on imports. So 30% of the £20 million would be le£14 million to be circulated round the next time. Then 30% of the £14 million wo leaving about only £10 million to circulate round the next time. This goes on and leaked and the economy would have grown by £60 million.

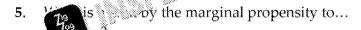
So how does this link with aggregate demand? Every time the income flows aroudemand curve is shifted out. Using the same example, the Keynesian AS/AD diag





Questions: National Income

- 1. What is the difference between wealth and income?
- 2. a) What is an injection and what is a withdrawal?
 - b) List and explain the six injections and withdrawals.
- 3. a) Draw a circular flow diagram with all the injections and wi
 - b) Explain how income flows around the economy.
 - c) What would happen if injections were bigger than withdra
 - d) What would happen if the government in reased the tax ra
- 4. What is the multiplication



- b) tax?
- c) import?
- 6. If the marginal propensity to save was 0.1 and the marginal pro
 - a) What would the marginal propensity to tax be if the margin 0.5?
 - b) What would the multiplier be?
 - c) If the government injected £10 million into the economy...
 - i) How much would the economy grow by?
 - ii) Draw a circular flow diagram to show the path of this *f* the economy.
 - iii) Show this using an aggregate demand and aggregate s







Economic Growth (2.5

By the end of this topic, you should understand...

- √ The factors that cause economic growth
- √ The distinction between actual and potential growth
- The distinction between actual growth rates and long-term trends in growth rates
- ✓ The effects of economic growth on consumers, firms, the government and living state
- ✓ The positive output gap
 - Where this is on the trade cycle
 - How this can be illustrated on an AS/AD diagram
 - How this can be illustrated on a PPF
 - The characteristics of a boom
- ✓ The negative output gap.
 - Where this is on the trade cycle
 - How this can be illustrated and
 - How this can be iller some in PPF



We have already introduced the idea of growth and national income, and how it this section we will think about *changes* in growth rates. Growth is not constant. consecutive quarters, let alone years. We will talk about the general pattern that time and offer explanations for the variations that we observe.

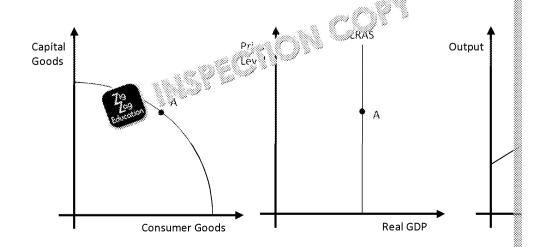
Actual growth is the true amount of growth that is observed in real life.

Potential growth is the predicted growth of the economy in the long run, observing its previous trend. The potential growth of an economy is shown by the 'trend growth rate' line on the diagram.

Actual growth rates a economy is growing in

Long-term trends in good growth of an economy fluctuations. The long-to-shown by the 'trend grown by the '

Potential growth is also shown on a PPF diagram and the classical economic view Because the PPF shows the maximum productive potential of an economy, wher shows the economy has changed all factors of production (is in the long run) in cits resources available to produce as many goods/services as it possibly can and maximum potential growth.





Factors that Cause Growth

Factors that cause the long-run aggregate supply to change or shift the PPF will cause economic growth to change in a similar fashion. All these factors are summarised below. In a nutshell, however, anything that increases the number of goods and services in an economy or improves the ability of factors of production will cause economic growth.

The level of a from an incredepends on the position diagram. If the capacity, a gin a large increase in resident

• Technological Advances

If technology improves, it improves the ability of factors of production. This improves an economy's productive potential grow as it can produce more goods and service the resources available.

• Education and Skills

This is an investment in human and will create a more productive economy to grow and productive goods and services in the long run

By ting 3.55 and legislations, a government can affect the efficiency in the promote competition and innovation which will improve or create new goods that need fewer inputs. This will allow an economiservices, bringing the potential to grow economically.

• Demographic and Migration

Migration and changing the demographic of an economy will change the economy. Generally, populations grow over time and so the economy

Investment

Positive net investment will create economic growth, whereas gross in maximum amount an economy can produce. This highlights the criteric growth-related investment. Investment in research and development, will increase the efficiency in resources.

• Natural Disasters or War

Natural disasters and war will cause an economy to lose resources as that taken out of production and instead used for war.

• Export-led Growth

For some countries, such as China, the high levels of exports are what for called export-led growth. For these countries, international trade is high income from their foreign trading partners is what boosts their economy the injections would cease and the economy would not grow.

Effects of Economic Growth

Consumers and Workers

- Increased growth means the economy is expanding and there will be a compeople will have incomes and the negativities as a contact and with unemploy
- Increased incomes mean people car ່າ ກະວາຊານາຍົກ savings and increase 🖠
- Increased incomes mean and consume more goods they desire.
- Economic growth: Arms will enter the market or increase their particles are done in the second of the

Firms

- Economic growth indicates firms have increased production or new firm
- With increased production, firms will gain more revenue and higher prof
- Firms will have taken and are more likely to invest in improving and increase.



The Government and Economy

- High employment means expenditure on benefits has fallen.
- The government will also receive more tax revenue from income tax.
- High levels of consumption mean the government will receive more tax and services.
- More firms or increased production means the government will receive
- Expectations and confidence will be higher.
- Higher expectations and higher confidence will increase investment and
- Economic growth usually entails inflation. This means UK prices will appeared goods. UK exports will fall and imports will rise; this is likely to worsen the

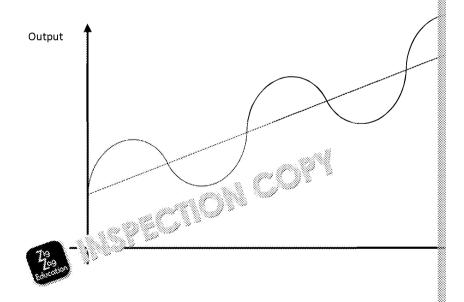
Living Standards

- Economic growth indicates higher emilion modern should decrease the an economy.
- If more people have the heavily should reduce income inequality.
- Economic g sociated with increased living standards, although not the case.

Trade (Business) Cycle and Output Gaps

In order to follow the trend growth rate, an economy needs to have economic stameasures of macroeconomic performance remain steady and there should be no price, unemployment, growth and balance of payments. The economy should have run equilibrium. However, in reality it is difficult to keep these variables unwaves swing above and below this trend rate.

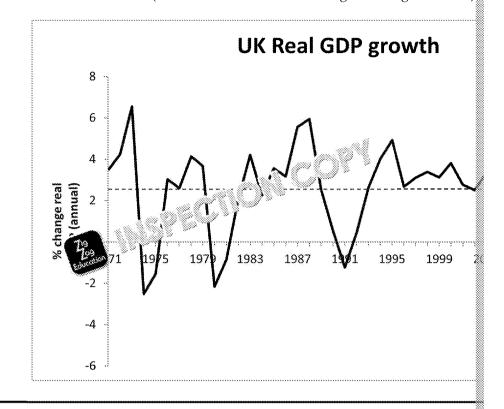
The diagram below shows this idea, known as the trade cycle or business cycle, is average, or trend, growth is a 'line of best fit' through the middle of the wave:





ACTIVITY

Compare the diagram of the trade cycle with the real observed p between 1971 and 2014: (the dotted line shows the average annual growth rate)



The table below summarises the effect of each stage of the cycle on various economics

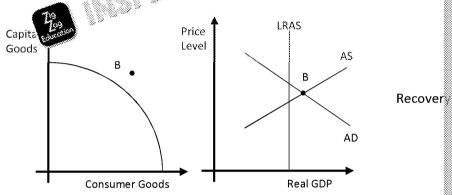
	In Recovery	In a Boom	In Rec
Confidence and	Remain low, but	High	Remain hi
Expectation	begin to rise		begin to fa
Unemployment	Starts to fall	Barely any	Starts to ri
Inflation	Remains low, but begins to rise	High inflation	Disinflatio
Exports and Imports		UK prices are high, exports fall and imports rise	
Gov. Spending on Benefits	Begins to fall as employment rise	10%	Begins to f people are redundant
Taxation ()	B ; as as as as amption, investment and job creation increase	High	Begins to for people store spending and investing and incomes fallows.



An output gap occurs whenever there is a difference between trend growth and measure these output gaps for a variety of reasons. Firstly, measuring actual gro Topic 2.1.2 to remind yourself of the difficulties of measuring economic growth. a theoretical concept and much like the AS and AD curve, they are hard to place equations have been constructed to eliminate the fluctuations in actual growth is Some equations attempt to count the number of resources that exist in the cour productivity in order to find an economy's maximum productive potential. Howe the output of every individual resource, the results can only be an estimate. The complex to collect accurate figures.

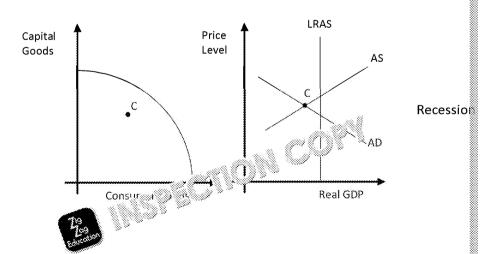
Booms: Positive Output Gaps

A positive output gap is when the economy is producing it is long-trend groeconomy is producing beyond its PPF, i.e. it is using nor esources than it curre capacity. An economy can do this in the in an art, for example, employing wo often associated with high levels and it was but low levels of unemployment. The being used and there is the arthur and from increased incomes.



Recessions: Negative Output Gaps

A negative output gap is when the economy is producing below its long-trend greconomy is producing within its PPF, i.e. there are unemployed resources within with spare capacity. Recessions are often associated with low levels of inflation this is because resources are not being used and confidence is low.





Questions: Economic Growth

- 1. Distinguish actual and potential growth.
- 2. What factors cause economic growth?
- 3. Why is international trade important for countries with an exp
- 4. Draw a business (trade) cycle diagram.
 - a) i) Label the positive output gap(s).
 - ii) Illustrate this gap using an Asi No Cagram.
 - iii) Using the concept of policy, explain what is happen
 - iv) What is ந்து ட். ூல் inflation, unemployment, confi ந்தி நின்றைய the output gap?



Label the negative output gap(s).

- ii) Illustrate this gap using an AS/AD diagram.
- iii) Using the concept of capacity, explain what is happer
- iv) What is happening to inflation, unemployment, confibudget throughout the output gap?
- 5. What are the effects of economic growth on consumers, firms, standards?





Macroeconomic Objectives and

By the end of this topic, you should understand...

- The seven macroeconomic objectives of the government
- Monetary policy
 - The monetary instruments used
 - The Bank of England as the operator of monetary policy
- - The fiscal instruments used
 - What is meant by fiscal deficit and surplus
- The USA's response to the Great Depression
- The UK's response to the global financial crisis of 2008
- The difference between market-based and interversion, thods
- Various supply-side polices that are used
- How the policies can be illustrated common Au diagram
- The strengths and weakness and supply-side policies
- The conflicts and trading and may exist between objectives and policies. The share on a conflict of the share of the share

First and for strive for growth; they want the country to be w look at how governments aim to achieve this objective, and others, and what to when the economy starts to shrink.

Possible Macroeconomic Objectives

The government is tasked with steering the economy with the aim of making the and raising living standards. Higher growth and stability are the keys to this but other factors too. The main objectives of government economic policy can be su

Economic growth

Economic growth indicates more jobs, increased income and greater opport sustainable level of economic growth.

Low unemployment (less than 5%)

The government aims to have full employment because this indicates the e productive potential. In the UK, 5% is considered the natural rate of unemp level the government aims for.

Low and stable rate of inflation (less than 2%)

Price stability is important for economic agents to function properly. As disc create a stagnant and potentially diminishing market; therefore the government levels of inflation at around 2%.

Balance of payments current account equilibrium

A balanced current account means the analysisce of injections and without than the other it can cause the second boom above or deflate below its

Balanced government a ____ev (tax revenue = spending)

The gc er caset refers to the levels of government spending compa kls are unsustainable for a government and can lead to financi recession has highlighted. In order to have sustainable government finances need to equal spending.

Protect the environment

In order to meet growing demand from infinite wants and population growt resources are used up, leading us to a bottleneck. Without a healthy environ cease to function, whereas a healthy environment is beneficial for well-beir Therefore it is imperative to protect and maintain it.

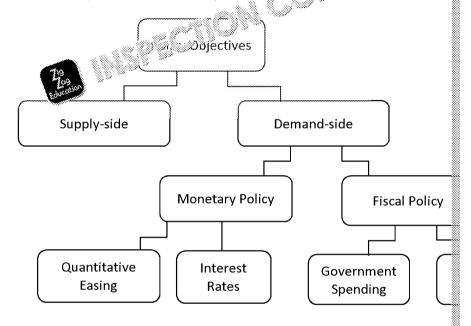


7. Greater income equality

A more equal distribution of income creates a fairer economy and allows the more efficiently to increase living standards; however, a gap is still needed in Reducing relative poverty will create greater income equality.

The main government objectives can be achieved using various policies. Each polinstruments'; this means variables that the government can control in order to nachieve the various policy objectives. These instruments control the economy by demand or aggregate supply.

Policies that use instruments to influence aggregate supply are called 'supply-side instruments to influence aggregate demand are called 'dea d-side policies'. The policies: monetary policy and fiscal policy. These ratio et al. e discussed in the subset.



Demand-side Policies

Fiscal Policy

Fiscal Instruments: (

Government spending is an injection into the economy and taxation is a withdrawal from the economy. These two instruments work in and come together to create an expenditure ratio. The government can directly tax at a different level or choosing to spend a different amount.

Deflationary fiscal policy is where the government S = Action S defiate or reduce the economic and some support of the economic and the e

Expansion (isc) Sis where the government tries to 'inflate' or boost the ecosorecession. The the economy, the government will increase government spending a increase the curve from AD1 to AD2. GDP has risen but there is also inflation.

Indirect Taxation

Indirect taxes are taxes that are imposed on an economic agent but are not paid imposed on a producer but are passed on to a consumer. The tax is indirectly paparty does not have to pay the tax, i.e. they can choose not to buy the product that taxes on fuel, or other goods and services, are indirect taxes; VAT is an indirect taxes there are very few goods/services the tax doesn't apply to.



Direct Taxation

Direct taxes are paid directly by the economic agent that they are imposed upon inheritance tax, student loans or poll tax are imposed on an agent and are paid a government. These taxes cannot be avoided through consumption choice.

Government Budget (Fiscal) Deficit is when the money coming into the government the form of tax revenue and government spending. A fiscal deficit is not the same thing to the idea of stocks and flows. The overall debt is a stock, or the total amount of money variable amount measured over a period of time. A government will need to borrow moturn creates debt.

Government Budget (Fiscal) Surplus is when the money coming into the government leaving (government spending).

Price Level

There is a forthings that affect the ectiveness of fiscal policy; it is a good idea to mention some of these as you will gain 'evaluation' marks in the exam.

- The size of the multiplier will determine how effective fiscal policy is because it will 'amplify' any changes made by the government. A large multiplier means the government needs only make small changes in order to have large effects, whereas a small multiplier will not bolster changes to tax or spending and therefore larger changes are needed.
- The economy is complex and hard to measure. It is difficult to determine whereabouts the economy is on the business cycle and where the AS and AD curry are. Therefore, the incorrect information or misjudge by how must not cut/increase spengovernment could over- or under-shop by incorrectly using fiscal policy as problems.

 P_2

- Expansionary fiscal raise in Arthough this doesn't determine the effectiveness of affective and can create issues in the future.
- The parall problem with fiscal policy is that there are time lags between and the actual implementation of the policy because it takes time to pass a bureaucracy and to hire more public workers. However, once implemented felt pretty quickly. This time lag is problematic because the government can fluctuating market regardless of its severity. Equally, even if the government changed their instruments in accordance with the economy, there is no tell future. External shocks that occur after policy implementation can cause the to policy predictions or the remnants of the policy and the new state of the further failures, especially if the government's attempts are slow to correct



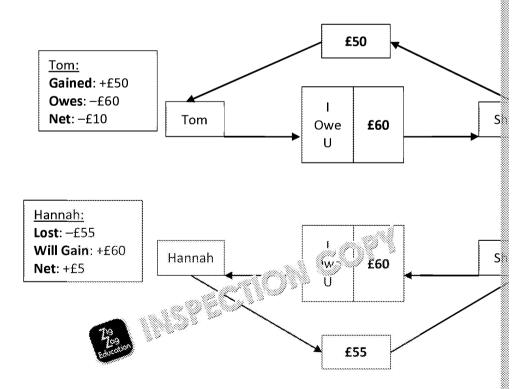
Monetary Policy

Quick Explanation of the Finance Market

Banks lend to others because, although the borrower is currently without money, they will pay back this money plus interest. Therefore the lender (the bank) will make money in the long run.

If the lender needs money, they of course can't use their own because they have must then find money elsewhere; rather than borrowing themselves, they will 's work? Shannon lends Tom £50; in return Tom will pay Shannon £60 next month. money and cannot wait until next month. She tells Hannah that Tom owes her £655, Tom will owe Hannah £60. This way, Shannon has received the money she learn hannah will have earnt £5 from lending Shannon £55. This is be repeated again. The financial system is complicated and with number is insactions, it can be have whom, especially when the borrower carries are their works.

Cash (notes and coins), and an image. Liquidity is the ease with which somethin cards are recovery of the solution of the solu



Monetary policy is set in a different way to fiscal policy and this is mainly because not directly controlled by the government. As discussed before, interest rates after investment; however, there are a few more steps in between.





Further your economic knowledge...

The responsibility for setting interest rates was passed from the gove 1997 under the leadership of Gordon Brown as Chancellor and Tony

Previously, there was the suspicion that governments had been manipolitical purposes. By reducing the rate close to elections, aggregate economy would boom. This would increase the chances of re-election—but also increase the peaks and troughs of the **economic cycle**, leasuncertainty and deeper recessions.

Now the Monetary Policy Committee (MPC) of the Bank of England sindependent of political pressures and logical state the country.

Tight (deflationary) reaction is implemented when inflation is expected to eattempt to the allowing demand by increasing interest rates and/or decreasing the from Fiscal this will cause the AD curve to shift inwards from AD2 to AD1; price

Loose (expansionary) monetary policy is when inflation is expected to fall below take monetary policy by decreasing interest rates and/or increasing money supply. This will outwards to AD2; price level has risen and so has GDP.

ACTIVITY

ypolicy/Pages/letters.aspx

Read the recent letters from the Governor explaining why the 2% inflation target has been missed. www.bankofengland.co.uk/monetar

Firstly, you need to understand the role of tasks a central bank can have, including conserves, maintaining the exchange rate, inflation control. The Bank of England is to maintain the exchange rate but in 1992 rate market. It still holds the stock of fore coins (via the Royal Mint). Its main role is (inflation control), which is done by setting

The base interest rate is the rate of interest the Bank of England charges to comfrom them. Commercial banks are those that you see on the high street; they are businesses use to borrow money from and store their savings. If the Bank of England commercial banks are likely to raise their interest rates to cover their increase then mean the cost of borrowing for businesses and consumers will increase and their spending and investment.

The Bank of England was given the role of inflation targeting because the government rates during times of election in order to book as a ner confidence and democratic disruption to the economy, inflation to replicate was given to an independent of the Bank of England, specifically the Monetary Policy Compatitive (MPC). If the Bank of England targets, then it must report be so the government with an explanation as to what the source of the source

ACTIVIT 1

ne Bank of Japan

was the first to use a program of quantitative easing in the early 2000s. Research why this was necessary: read about Japan's 'Lost Decade'.

The Bank of England may also use 'quantisto lend money and create greater ease of does this by effectively printing more morphysical money, it assumes it has more more the Bank of England is able to buy corporate commercial banks. This means banks will transaction rather than exchange of physical they gain from their sale of bonds means

lend money to economic agents. Quantitative easing is used when there is a lack economy.



Monetary policy is seen as a blunter policy than fiscal policy because it targets the fiscal policy could be targeted to selected markets. However, interest rates can be quickly than tax rates.

- Commercial banks may not pass the change in the base rates on to consurbusinesses. Therefore, effectively, the interest rate has not changed and the activity.
- If confidence or expectations are out of sync with the economy, then economy respond in the same way regardless of the changing instruments.
- There can be time lags between when monetary policy is implemented and because it may take economic agents time to page their consumption and interest rates.
- There may be a credit crunch and consumers.

 There may be a credit crunch and consumers.

 There may be a credit crunch and consumers.

Demand-size Policies (Monetary and Fiscal) Similarities and Differences

	Monetary	
Policymaker	Bank of England's Monetary Policy Committee	Governn
Instruments	Interest Rates and Quantitative Easing	Governn
Time lags	6–12 months due to adjustment in habits and	Up to 18
	expectations	impleme
Trade Cycle	Better in worse in	Better in

History of the Use of Demand-side Policies

To boost an economy, the government should reduce interest rates (monetary p spending on infrastructure (fiscal policy). The money that is in the economy could investment; if there is a low supply of money, then little can be lent for investment determined the level of investment rather than the interest rate because savings more people saved their money in banks, banks could lend more money to investincreasing the money supply to boost the economy would work during normal tilduring a depression.

Great Depression in the 1930s

United States of America

During the Depression, US exports fell heavily as foreign trading partners also fell unable to afford US goods. In response, the USA adds and Sr. Soot—Hawley tariff, agricultural and industrial items. The aim was a supption from foreign goods to dome a 'tit-for-tat' retaliation from an antries that imposed a tax on US imported between the US and From Equally, Europe owed reparation money to the US recover from their goods and they were now unable to pay their reparations. This mean inflow of income and the economy was becoming stagnant. The US government projects such as road building. This was not only an attempt to inject money into attempt to tackle the high unemployment problem by providing jobs. The effect injection is debated; some believe it helped end the Great Depression, whereas production from World War II was the main contributor.



Although the job-creation policy was more successful than the import taxing, it vestill slow and gave very little improvement. Their monetary approach was equally unsuccessful. Interest rates were already close to 0 and this did not seem to boo aggregate demand. The government provided \$2 billion to the banks in order to promote consumption and investment which would trickle down through the ecological policy and wages. The outcome of this is controversial; some believed it helped that the money was mainly lent to large businesses who didn't spend it on plans that During the Depression people were not spending or investing their money, but they were not depositing their money into bank accounts. This created a liquidity Roosevelt decided to insure the wealth people stored in their bank accounts, where the banks and encouraged them to put their money back into accounts rather the liquidity problem and banks now had funds to lend for instance and consumers to the problem and banks now had funds to lend for instance and consumers the setment and consumers to the problem and banks now had funds to lend for instance and consumers the problem and banks now had funds to lend for instance and consumers the problem and banks now had funds to lend for instance and consumers the problem and banks now had funds to lend for instance and consumers the problem.

United Kingdom

In the UK, the government took defining an incasures and looked at cutting the unemployment benefits and one case of pay by 10% and increased income tax 2.5%). This reduced income tax passing power in the economy and only made the de UK impose of comported goods. The tariff rate was at 10% and only affect countries the enot in the British Empire.

The abandoning of the gold standard in the early 1930s improved UK competitive to fall by 25% to its natural position. This increase in international competitivene and increase aggregate demand. On top of this, the Bank of England decreased to drop in interest rate helped to recover the UK economy.

Global Financial Crisis of 2008

The 2008 global financial crash was the worst recession the world has seen since was triggered by the sub-prime mortgage crisis in the USA. The sub-prime mortgages is suing mortgages to high-risk household owners (homeowners that were These high-risk mortgages were then split up and mixed with other loans that we create a 'mixed bag' of various parts of different loans, so that as an average, the when the risky borrowers started defaulting on their loans, nobody could track verification from the system started to unravel, especially as speculation meant people because. The financial system dried up, lots of people lost a lot of money and it left interest on customers' savings accounts. As in the 1930s, the global economy for which means that monetary policy became ineffective.

United States

At the start of the crisis in 2008, the USA followed an expansionary fiscal policy. The economy to promote aggregate demand. Later, in 2009, the economy was stored to use the US government opted for an approach that was spread over a longer period the USA spent a larger \$787 billion in the economy.

The USA also used quantitative easing in an at an at the increase the money support the effectiveness of this policy is my the above and no one really knows the true Federal Reserve reduced the large from 5.25% in 2007 to almost 0% by my

The UK reduces in an expansionary fiscal policy movement and reduced VA the government spent £3 billion on investment in the economy to boost it out of tax cuts and spending caused a severe budget deficit. By 2010 the UK government attempts to reduce it.

The Bank of England reduced its interest rates from 5.75% at the start of the cris. This had little effect and by the following year the Bank of England had reduced to a record low. Despite having rates close to 0, there was little change in borrow their money. To compensate, the UK government tried quantitative easing of arc banks the liquidity to lend again.



Strengths

Although demand-side policies have a time lag of about a year, they are
policies and are therefore used to respond to changes in the economy.

Weaknesses

- Classical economists believe any increase in aggregate demand will only
- Although the government can manipulate the economy, the global mark government has no control over. The government policy is weak to extern
- Data collection is slow and long-winded. The information provided to go inaccurate but also out of date, causing the government to react slowly

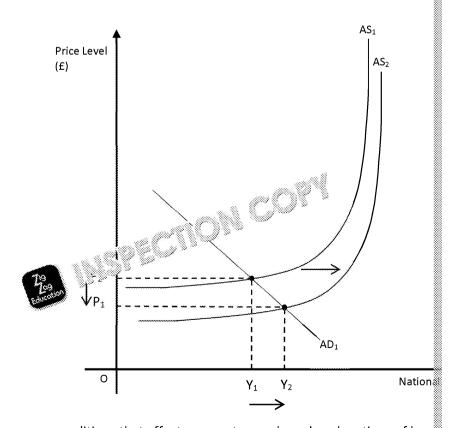
Supply-side Policies

Market-based Policies: The state of the free market to increase efficiency, products Market-base forces of the free market to increase efficiency, products Market-base forces try to boost aggregate supply by improving the ability of the free any barriers.

Interventionist Policies: Interventionist policies are the opposite of market-based policies and active role within the economy. Its role is to intervene in order to correct any find to guide an economy to a better equilibrium.

There is a wide range of things that affect the aggregate supply, none of which the level of control over as it does with demand-side policy instruments. The main was aggregate supply is through spending on supply-affecting investments or by charges.

Let's remind ourselves of AS/AD analysis. If aggregate supply shifts outward ther being equal:



Below are some conditions that affect aggregate supply and explanations of how policies to affect those conditions.



• Promote Competition

If there are lots of producers in a market, then there is more competition will give producers an incentive to find ways to cut production costs becagoods at a lower price, thereby gaining more customers. To do this the gloans to start-up companies, reduce barriers to entry (obstacles that may market'), or enforce laws that prevent monopolies (large firms that other reducing taxes on imports or subsidies for domestic firms, there will be a will increase competition within the market. By both reducing taxes on intenter a market and providing subsidies to domestic firms, an economy callowing domestic firms to remain. This will boost LRAS because domestic replaced with foreign production, but the competition drives the firms to thereby pushing out the LRAS curve. Privatisation also boost compet worried about increasing revenues or cutting to boost profits, there competitive. By giving the business are players.

• Reformation Valuer

Ref the labour market refers to the quantity and quality of labour and force and freely within this market. Structural unemployment is a result labour. Trade unions are another barrier to the free market system. Trade unan individual worker by uniting them together as one large body. This gives when it comes to wage and working conditions negotiations. By opening upgain workers and thereby increase its ability to produce goods. Because this around migration are supply-side policies. By increasing minimum wage, mowork. Equally, by reducing unemployment benefits, this would disincentivise benefit and encourage them to work. However, unemployment benefits are incomes and so there is a trade-off between protection and incentive.

Quality of Workforce (Skills and Education)

If the government invested in schools by, for example, buying new learn have a better education system, creating a more productive workforce. Exprovide financial assistance for pupils to continue into further education Educational Maintenance Allowance (EMA) was granted to students from has now been scrapped in England. Investing in training courses for work human capital of an economy. This is particularly useful if there are structure because it will help the mobility of workers between markets.

Infrastructure

Spending on infrastructure means investing to improve the physical conditions or organisation of the economy – for example, investing in transport systems such as railways and roads, or investing in buildings for factories of houses. By improving these factors, society will be happer and the economy will function more and the economy will function more and the housing, then the way for a call be happier; if the roads were smooth and traighter, then the lorries could move bet the second move easily.

To see spend the enhttps

Quality of Capital and Production Processes

Investment into research and development will create a technological action machines are invented and more efficient methods of production are crecurve out because a more productive and efficient economy can produce positive net investment will indicate increased capital stock. Greater quameans there is the possibility for more production.



Strengths

- Shifting the aggregate supply curve outwards will not cause inflation as in prices through competition and improvements to production.
- Increasing aggregate supply is an increase in production, as long as it is not demand (movement along the AD curve). This indicates a rate of economical as resources are generally improved or increased in the long term.
- Increasing production and economic growth will mean there is job creatilevel of unemployment.
- By improving the productive capacity of an economy and reducing the complete will become more competitive in the global market. This will mean export trade deficit.

Weaknesses

- Supply-side policies have long time in a linguoring the quality of the work education can take 13 versus surfaces start aged 4–5 and finish aged 1
- These policies ca 🕹 💸 😽 stly, which would have a negative impact or
- Although the someont can manipulate the economy, the global mark gov
 In has no control over. The government policy is weak to extern
- Data collection is slow and long-winded. The information provided to go inaccurate but also out of date, causing the government to react slowly

Conflicts and Trade-offs between Objectives and Polici

Macroeconomic Objectives

There may be conflicts between macroeconomic objectives, i.e. in the process of in objective is impaired. The most famous trade-off is the one that is shown by the Ptrade-off to be explained because your syllabus requires more in-depth knowledge.

Economic Growth versus Inflation

Economic growth usually results from an increase in aggregate demand. An increase in large only increases growth but also increases the price level. Therefore, as an economic growing rates of inflation too. One way to increase growth without increasing presupply; classical economists believe this is the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow LRAS curve, any increase in aggregate demand will only result in price increases in the only way to create economic grow the only

Economic Growth versus the Current Account

As the economy grows and people's incomes rise, people will spend more on important worsen a trade deficit (or improve a surplus). Equally, as the economy grows and will appear more expensive in relation to foreign goods. This means exports will imports could create a negative current account (deficit).

Economic Growth versus Environman

Pollution and environmental constants a social cost. Remember negative expolluting the environmental constants a social cost. Remember negative expolluting the environmental constants are up more of the finite resources. With more production fuels, and we expansion of new factories, offices, hospitals, etc. comes the may currently be inhabited by nature. China is a clear example of the trade-off beconomic growth and their low rates of clean air and healthy environment. Cour the environment during their industrialisation stage, where environmental concerns the rapid rise in growth rates, and countries switch to more capital-intensive for



Inflation versus Unemployment (Phillips Curve)

In 1958, Bill Phillips hypothesised a relationship between unemployment and inflation. He believed that if there was high unemployment in an economy (spare resources), then firms could offer relatively low wages as most people would be without an income. Another way to look at this is in terms of competition; there was very little competition within the labour market as the supply of jobs was low relative to the supply of available workers. On the other hand, when the economy was near full employment, attempting to expand would be more costly because firms would have to offer wages that were much higher than the market equilibrium in order to tempt already employed workers away from their current jobs. So, as unemployment fell, expanding projection would become more costly and prices would incress to smpensate.

Inflat

Long-run and Short-run Phillips C:

The economy went through ps curve trade-off. Stagflation in the 1970s that seemed to discove ps curve trade-off. Stagflation is when the economy horrowth, and high levels of both inflation and unemploymenther than a compromise between the two. It was instead theorised that expectations had adjusted to the high levels of inflation and these new expectations of inflation were incorporated into wage negotiations. Equally, the strong union power in the UK at the time meant the market was restricted from adjusting to the market equilibrium, resulting in high unemployment (remember the Keynesian idea of sticky wages).

Inflat

With this idea the theory of the short-run Phillips curve was created. The relation true to Phillips' relationship; the curve may simply shift in the short run so that described results in increasing inflation but at high or low levels. In the long run, however, relationship and therefore the Phillips curve is a straight line in the long run. It is curve lies at the natural rate of unemployment.

Macroeconomic Policy

Fiscal Policy Conflicts

Increased government spending may help to boost an economy out of a recession will be likely to result in increased taxes in the future. This tax increase not only approach, but will reduce incentives to work and could worsen income distributions is implemented.

Reducing government spending may mean cutting benefits or reducing investme can have a negative impact on the living standards within an conomy. After the shifted focus to reduce government debt by cutting 5 en ing however, this was who feared losing the NHS and the adverse focus reducation quality. Cutting by worsen income distribution and discount transcriptions who may need the benefits

Monetary Police Con 1992

The Bank of the analysis independent control over the interest rates in order to increasing it rates can be damaging to some people; for example, new hor pay a mortgage. This could worsen wealth distribution. Monetary policy can also If interest rates are high then this will discourage new start-up businesses and rethe market.

Supply-side Policy Conflicts

Supply-side policies that improve infrastructure will improve the efficiency of the damage the environment. Areas of forests, for example, may be cut down in ord supply-side investments will come out of the government's budget which may confiscal policy.



Questions: Macroeconomic Objectives and Policy

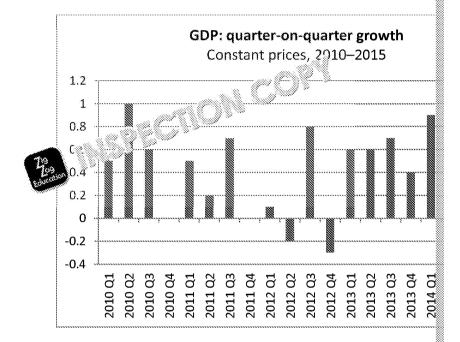
- 1. a) What are the economic objectives of the government?
 - b) Why are these the objectives of the government?
- 2. a) What are the three macroeconomic policies?
 - b) What are the demand-side policy tools and how can each manipulate the economy?
 - c) Who is in charge of the three policies?
- 3. What is meant by a fiscal deficit and while it is problematic?
- 4. What is the difference we went direct and indirect taxes?
- 5. The time of the Bank of England?
- 6. Supply-side policies are better for the economy than demand-side ponot used is because the time lags mean politicians won't see results is extent do you agree with this statement?
- 7. How does fiscal policy conflict with other policies and the gov
- 8. How does monetary policy conflict with other policies and the
- 9. How do supply-side policies conflict with other policies and the
- **10**. What are market-based policies?
- 11. What are interventionist policies?
- **12**. a) Draw a short-run Phillips curve.
 - b) What does the Phillips curve show in terms of meeting all
 - c) Draw a diagram to show how the Phillips curve might lo
 - d) Name and explain four other conflicts that might arise in





Exam-style Questions 3: Macroeconomic Obje

- 1. Which **one** of the following **can** be inferred from the chart below?
 - A The UK's economy shrank between Q2 2014 and Q1 2015.
 - B Between 2010 and 2015 the UK's economy had consecutive quar
 - C The highest growth during the period was in 2014.
 - D The UK's economy grew overall in 2010.



2. Which of the following statements is not true?

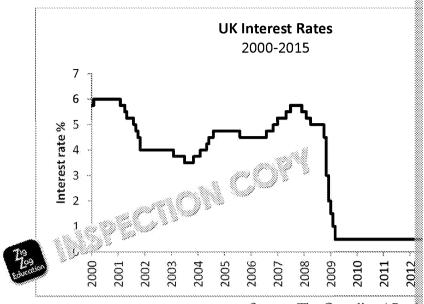
3.

- A In a boom an economy produces above its long-term trend rate
- B An output gap is the difference between actual growth and the
- C In the long term, the trend rate of growth is always 0%.
- D During a recession there is spare capacity in an economy that is

Describe the idea of loose monet	ary policy and how it can be used to
	······
	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;



Look at the chart below which shows the interest rates in the UK set b Committee (MPC) of the Bank of England between 2000 and 2015.



	Source: The Guardian / Ban
	Describe the main trends shown in the graph.
5.	Explain the difference between direct and indirect taxes.
6.	Calculatine multiplier if Marginal Propensity to Withdraw (MPW)



Answers

Measures of Economic Performance

- 1. What is the difference between inflation, deflation and disinflation?

 Inflation is a rise in general price level, whereas deflation is a fall in general price level has increased, but the increase is less the
- 2. a) List and explain four effects of inflation.

Any four of the following

- **Diminishes the Value of Saving:** Apply to y that is stored will rest the value of a good increased up increases). This reduces the
- Shoe-leather Cost was of inflation mean prices are constantless able to a large prices of goods.
- ____nt > ____ hirms will need to change their price labels.
- Nosable Income: Higher prices reduce purchasing power as pe
- **Cost of Living**: As prices rises, people will find their costs of living
- Discontent: People become discontent and unhappy if prices are going up at a similar rate.
- Government Taxation: Workers can earn a certain amount before to doesn't increase at the rate of inflation, then, in real terms, the amount they are taxed will fall. So they are taxed more heavily.
- **Unemployment:** The Phillips curve relationship states that as infla
- Anticipated Inflation: If firms have not prepared for increasing prebudgets. Equally, firms' expectations will fall if they experience high are less likely to invest.
- b) Despite these effects, why is deflation worse?

Because inflation follows economic growth, deflation is associated with expectations and confidence. Equally, because prices are falling, people before making a purchase, which will lead to a stagnant economy.

3. What is a basket of goods?

It is a list of items that are bought by the average household.

- 4. These questions refer to measuring inflation.
 - a) How is inflation measured using the CPI?

First, a basket of goods is created. Then the ONS sends out the Living C calculate the weights and average prices of each good in the basket.

b) What is the other measure of inflation?

Retail Price Index (RPI)

c) What are the limitations of mean innation?

Neither CPI nor RPI a com to we change in quality. If a good has impossible to cost to a company which is only seen as inflation, and not an improsure and are considered as inflation with measure of inflation, which shows they attempt to, CPI and RPI can be unrepresentative for some cohorts. Substitutes.

- d) Using the information in the table below:
 - i) Fill in the missing columns. *See table.*
 - ii) What is the rate of inflation in Year 1, Year 2 and Year 3? Year 1 = 4%, Year 2 = 5%, Year 3 = 4%
 - iii) Using inflation, deflation and disinflation, can you describe the Between 2000, 2001 and 2002 there is inflation; in 2003 there is disir



88	888	- 888	
₩.		- 9330.	
*		/	

999		2000	
		888889	

€		3	
*****	₩	7	

Good name	Price	Items bought a	o a percentage		Index
Good A	£5.00	20%	0.20		
Good B	£3.00	15%	0.15	£4.48	100
Good C	£0.50	35%	0.35		
Good D	£9.50	30%	0.30		
Good A	£5.25	21%	0.21	£4.64	104
Good B	£3.50	15%	0.15		
Good C	£0.65	35%	0.35		
Good D	£9.60	29%	0.29		
Good A	£5.75	21%	0.21	£4.87	109
Good B	£3.75	16%	0.16		
Good C	£0.75	35%	0.35		
Good D	£10.00	28%	0.28		
Good A	£5.75	18%	0.18	£4.64	104
Good B	£3.75	14%	0.14		
Good C	£0.75	35%	0.35		
Good D	£10.00	27%	0.27		
Good E	£2.00	6%	0.06		

ference between employment, unemployment and underemployment?

when somebody has a job, whereas unemployment is when somebody is willing and able to n't have a job. Underemployment is when somebody is in employment (has a job), but is hours than they would like, i.e. they are in part-time work rather than full-time work.

the five main causes of unemployment?

frictional, seasonal, demand-deficient and real-wage inflexibility xplain these causes?

tural: This occurs when demand and supply of labour do not match or when the skills of a er do not match the requirements. This is known as geographical or occupational immobility. onal: This occurs as people change jobs.

nal: If people are employed in seasonal work, then when the seasons change, they are without

and-deficient: If the economy is in a recession, then firms will cut back on production and there e little demand for labour.

wage Inflexibility: If the actual wage rate is below the market equilibrium, then there will be cess supply of labour.

n four effects of unemployment.

for a full list of effects.

is refer to the measures of unemployment.

the two main measures of unemployment?

ployment Rate and Claimant Count

nese measures attempt to quantify unemployment?

Jnemployment Rate: The ILO sends out the Labour Force Survey to determine the number of le who are in/out of work and who are seeking work. From this, they are able to calculate an ated percentage.

nant Count: This counts the number of people who are claiming unemployment benefits as a ntage of the working population.



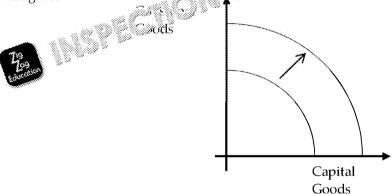
DPYRIGHT

c) How accurate are these measures?

Neither measure is completely accurate as they only calculate the statist claimant account generally underestimates the number of people in une

- 9. What is the difference between immigration, emigration and migration? Migration is a movement of people between countries; immigration is an investigation is an outward flow of people.
- 10. Can you explain some effects of positive net migration on the economy? To demand and supply diagram.

If net migration is positive, i.e. immigration is greater than emigration, then available in an economy (assuming those entering the anomy are of working economy's PPF as there are more resources and objecting the potential see PPF diagram.



11. a) What is GDP?

Gross Domestic Product: the total number of goods and services production

- b) How effective is GDP in measuring living standards and happiness? Economic growth generally has a correlation with living standards, alth Because GDP doesn't account for any happiness or development indical living standards. However, because GDP measures more quantitative vamore qualitative, it is an easier measure to collect.
- c) How do real and nominal GDP differ?

 Real GDP accounts for inflation, whereas nominal inflation is merely the
- d) How can GDP be adjusted to account for population size?

 By dividing the total GDP of a country by the population, GDP can be considered as a country by the population.
- 12. According to the theory of purchasing power parity, when is equilibrium When the purchasing power is equal across countries.
- 13. What is meant when economists say there is a curre of count deficit?

 When imports are greater than exports because for an anney is leaving the estimated the same of the
- 14. What is meant by the integrand receives of economies?

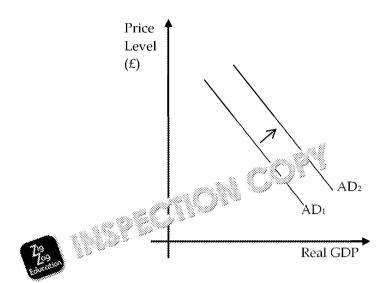
Where economies the time of the second of th

- 15. Why are inflation, economic growth, the balance of payments and unemple economic performance?
 - Inflation: High levels of inflation are associated with instability.
 - Economic Growth: Economic growth is linked to a stable and improvin
 - Balance of Payments: A deficit indicates more money is leaving the ecounsustainable.
 - Unemployment: High levels of unemployment mean resources are not economy and so it is underperforming. Equally, if people are unemploy income and so are not spending money to boost the economy.



Aggregate Demand (AD)

1. Complete this diagram by labelling the curves, the x-axis and the y-axis.



a) What has happened to this curve?

The curve has shifted to the right indicating an increase in aggregate de

b) i) What four main factors can shift the AD curve?

Changes in consumption, investment, government spending, net e

- ii) For each factor, explain 2–3 reasons why the curve was caused to
 - Consumption: (1) If disposable income has increased, then peand so will increase consumption. (2) The government might linturn lowers the cost of borrowing and reduces the opportunity. This will encourage people to spend their money rather than so to consume large, expensive goods. (3) Another cause might rehouse price. If people's assets increase, then people will feel wincrease their spending. (4) Lastly, if people have high levels of they will feel happier about spending their money and won't they are more likely to increase their consumption. Increased aggregate demand (AD) and push the AD curve outwards.
 - Investment: (1) Increasing economic growth will increase peoconsumption is likely to increase and there will be greater denresponse, firms will invest in expanding their business in orde
 increased demand. Hence, investment increases with economiincreased, perhaps because the exchange rate has fallen, or behave increased, then exporting companies may invest in expanmatch their supply with the increased and investment halowers interest rates, then the cost of the rowing and the opporhave fallen. This will are greater to invest their profits rais greater are as a cost of the following and the opporlikely and the government chooses to create regulate
 in the cost of the government chooses to create regulate
 in the cost of the government chooses to create regulate
 in the cost of the government chooses as a response, assuimplemented correctly.



Government Expenditure: (1) If the economy is in a recession increase its spending in order to stimulate the economy. (2) Equation to an expansionary fiscal policy approach, then their spending changes in the budget.

Net Trade: (1) If UK incomes fall, then UK consumers are likely
of imports. This could lead to a positive net trade, which will is
the pound depreciates, then UK goods will appear cheaper in
will fall as UK consumers switch to consuming domestically p
increase as foreign consumers buy UK goods. This will mean



increased aggregate demand. (3) If there is a world economic will rise. Exports will increase as foreign consumers can purchalternatively, UK consumers will also be more able to purchasoutweigh the increase in exports. However, because the aggregout, this indicates that exports are greater than imports. (4) If the level of protectionist measures implemented on UK goods, the their consumption of UK goods. Increased exports will increase UK produces high-quality goods, then the relative price will no consumers will increase their consumption of the UK export be will increase aggregate demand.

2. Explain how rising interest rates can affect aggregation and.

If interest rates increase then the cost of borrowal and the opportunity cost rises too. This will mean consumption of a people are less able to affor save is much higher. Investment of so fall as firms will be less able to affor save their profits within the appropriate in consumption, and an increase aggregation of push out the aggregate demand curve.

3. What is we wealth effect?

The wealth effect is that people will feel wealthier if their assets or houses pr

4. a) What is the relationship between savings and consumption?

Firms and households can either save their money or spend/invest. If armore, then their spending will decrease, ceteris paribus.

b) What is meant by the marginal propensity to consume?

The proportion of an amount of additional income that a person choose

5. a) How does net investment differ from gross investment?

Gross investment is the investment to replace old or used machines. This resources has not increased. Net investment is the total investment minutes to additional capital.

- b) A firm has five machines; three of them are old and the firm have plan has invested in five more machines.
 - i) What is the firm's net investment? Two machines
 - ii) What is the firm's gross investment?

6. What are Keynes' animal spirits?

Five machines

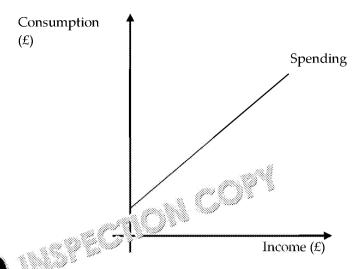
Keynes uses the phrase 'animal spirits' to describe a mix of confidence and edecisions of both consumers and producers. During the bnomic downturn means that consumers spend less and producers in the less.

7. What is the Golden Rule?

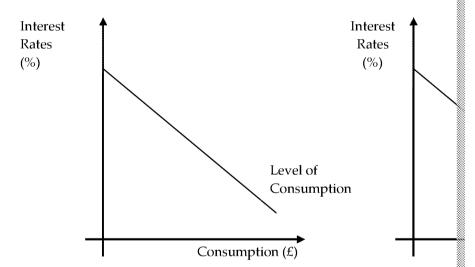
That a governmen' should be equal over a business cycle, i.e. their hashould be equal over a business cycle, i.e. their hashould be equal over a business cycle.



8. Draw a graph for the relationship between consumption and real income (x-axis).



- 9. With i parates being on the y-axis, draw a graph to show the relationsly
 - a) Commption
 - b) Investment



- 10. If Marcy's income rose from £25,000 per annum to £30,000 per annum and increased from £9,000 to £11,000:
 - a) What is her marginal propensity to consume?

Marginal Propensity to Consume =
$$\frac{\text{Change in Cor}}{\text{Change in Jacome}}$$
(11000 – 9000) 2000

 $\frac{(11000 - 9000)}{(30000 - 25 \, \Omega_{\odot})} = \frac{2000}{2000} = 3.4$

b) If rginal propensity to consume was instead 0.5, what would sleft of 0.5 indicates that Marcy will now spend half of her top of her initial consumption of £9,000. This takes her total consumption



Aggregate Supply

1. a) When is a firm in the long run and the short run?

A firm is in the long run when it is able to change all their factors of prowhen it is unable to change one factor of production.

- b) What factors could affect long-run aggregate supply?

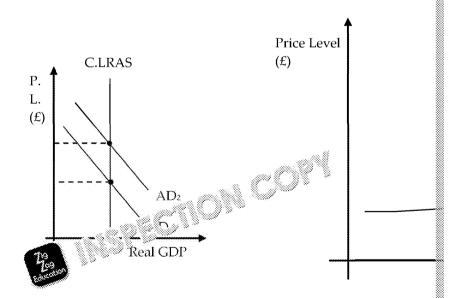
 Technological advances, relative productivity, worker human capital, go demographic, migration and competition policy
- c) What factors could affect short-run aggregate supply? The price of inputs (costs of production); for example, raw materials and tax rates
- 2. a) How do Keynesian and classical assum is the labour market disk Keynesians believe in sticky we have been at that wages will not autom 'stick' at the same level' see it people's wage expectations. Classical wages will fall 'see a special equilibrium, even, as some classical econors
 - b) i) cal aggregate supply diagram.

ii) Explain what the curves show.

An increase in aggregate demand will only increase the price level supply does not change.

- c) i) Draw a Keynesian aggregate supply diagram. See diagram below
 - ii) Explain what the curves show.

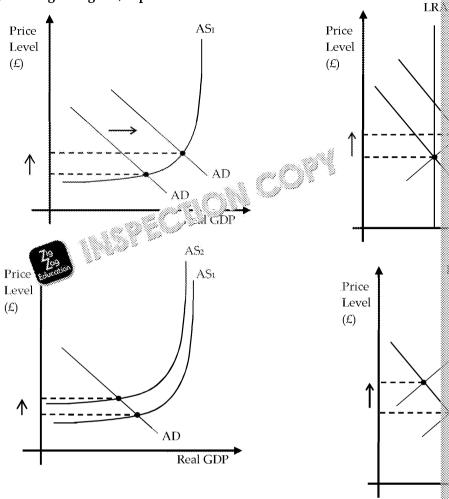
The level of spare capacity in the economy determines whereabout the flatter end of the AS curve, then it is likely to be in a recession varieties will be able to increase production with ease. Increasing aggregate and it will be costly to increase production with ease and it will be costly to increase production. Any increase in aggregate demand at this point will only with little increase in GDP.





3. a) What are the three causes of inflation? Cost-push, demand-pull, growth in money supply

b) Using a diagram, explain these causes.



- Cost-push Inflation: If the costs of production increase because, fo
 or oil prices have risen, the firms will increase their prices to comp
 will increase.
- **Demand-pull Inflation**: If, for example, the minimum wage is increase risen and consumption will increase. This will push out aggregate derincreased. This happens because as demand exceeds supply, produces shortages. In order to ration their goods they allow prices to be pulled.
- Growth in Money Supply: The phrase 'too much money chasing to inflation phenomenon of growth in money supply. If the amount of goods and services available for purchase to purchase the purchase will increase money to buy goods.





National Income

1. What is the difference between wealth and income?

Wealth is a stock concept, whereas income is a flow concept. A stock is a total point whereas a flow is a variable quantity measured over a defined period

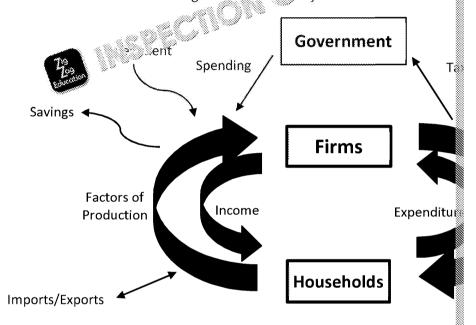
2. a) What is an injection and what is a withdrawal?

An injection is money is being added to the economy, whereas a with the economy.

b) List and explain the six injections and withdrawals.

Injections: Exports, Investment, Government Spending Withdrawals: Imports, Savings, Tax

3. a) Draw a circular flow diagram with all the enjections and withdrawa



b) Explain how income flows around the economy.

As firms purchase factors of production from households, they provide purchase goods and services from firms, they provide expenditure.

- c) What would happen if injections were bigger than withdrawals?

 The income coming into the economy would be greater than the income so the economy would grow.
- d) What would happen if the government increased the tax rate?

 The income coming into the economy would be smaller than the income and so the economy would shrink.

4. What is the multiplier?

The multiplier is the process hat a curs after an injection into the economy a original amount in the seconomy as

5. What i to the marginal propensity to...

- a) save. It is the proportion of people's income that will be saved.
- b) tax? It is the proportion of people's income that will be taxed.
- c) import? It is the proportion of people's income that will be spent on in

6. If the marginal propensity to save was 0.1 and the marginal propensity to

a) What would the marginal propensity to tax be if the marginal propen MPW = 1 - MPC = MPS + MPT + MPM

$$1 - 0.5 = 0.1 + MPT + 0.2$$

0.5 = 0.3 + MPT

 $0.2 = \mathbf{MPT}$



What would the multiplier be?
Multiplier =
$$\frac{1}{\text{MPW}}$$
 = $\frac{1}{(1-\text{MPC})}$
(MPW) 0.5 = 0.1 + 0.2 + 0.2
Multiplier = $\frac{1}{\text{MPW}}$ = $\frac{1}{(0.5)}$ = 2

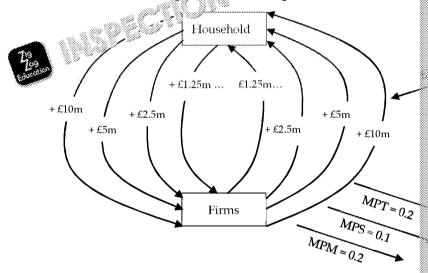
$$MPW = 1 - MPC = MPS + MP$$

or,

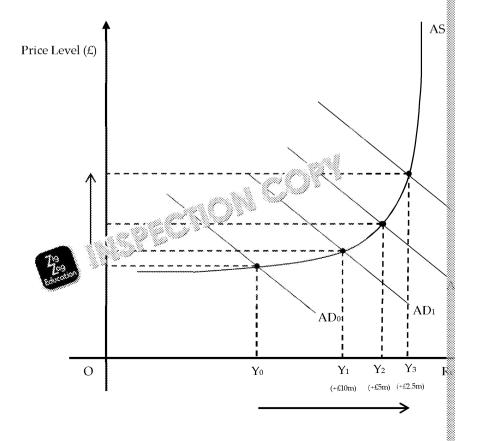
Multiplier =
$$\frac{1}{(1-MPC)}$$
 = $\frac{1}{(1-0.5)}$ = $\frac{1}{(0.5)}$ = 2

If the government injected £10 million into the economy... c)

- How much would the economy grow by? i) £10 million × 2 = £20 million
- Draw a circular flow diagram show the path of this £10 million



iii) Show this using an aggregate demand and aggregate supply diagram.





Economic Growth

1. Distinguish between actual and potential growth.

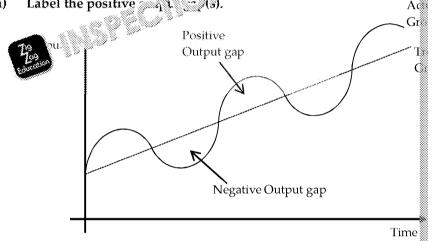
Potential growth is the maximum amount of growth that an economy could the factual real amount of growth that an economy has achieved.

2. What factors cause economic growth?

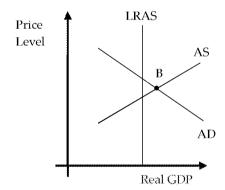
> Technological advances, increasing human capital, government regulation, migration, investment

- 3. Why is international trade important for countries with an export-led grow Because countries that take this approach are relying on selling their exports. to bring money into the economy. Therefore, the economic situation of their of the international trade market are important feed the countries.
- Draw a business (trade) cycle diagram.

Label the positive (a) to (3).



Illustrate this gap using an AS/AD diagram.



- iii) Using the concept of capacity, explain which happening within There is very little capacity; if anything the conomy is producing the economy is producing 'we'l it PF, and is overusing the res goods than the researches a wailable are currently able to prod
- iv) What is have a finite inflation, unemployment, confidence and 🕼 ou 🛴 🔍 arë output gap?

As an economy enters a positive output gap, inflation rises an Confidence increases; however, there is often a time lag with government budget deficit will begin to fall as increased consu increases tax revenue and falling unemployment means less s

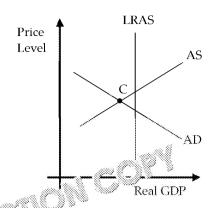
- At the height of a boom, inflation is very high, unemployment very high. The government's budget is likely in a surplus at th
- As an economy leaves a boom and heads towards a recession, and unemployment will begin to rise. Confidence will begin to time lag with consumer confidence. Any government budget become a deficit.



b) i) Label the negative output gap(s).

See diagram on previous page

ii) Illustrate this gap using an AS/AD diagram.



iii) Using the A 2 Capacity, explain what is happening within the water are a lot of spare/unemployed resources as the expression of the spare capacity is very high.

iv) what is happening to inflation, unemployment, confidence and throughout the output gap?

- As an economy enters a negative output gap, inflation falls an
 Confidence decreases; however, there is often a time lag with
 government budget surplus will begin to fall as decreased con
 decreases tax revenue and rising unemployment means more
- At the height of a recession, inflation is very low, unemploymery low. The government's budget is likely to be in a deficit
- As an economy leaves a recession and heads towards a boom, unemployment will begin to fall again. Confidence will begin time lag with consumer confidence. Any government budget possibly become a surplus.

5. What are the effects of economic growth on consumers, firms, the government

- Consumer and Workers: Increased growth means the economy is expand of jobs, meaning more people will have incomes and the negativities assemble. This means people can increase their savings and increase their weak goods. Economic growth indicates firms will enter the market or increase are more goods available for consumers with the potential of new goods.
- Firms: Economic growth indicates firms have increased production or market. With this increased production, firms will gain more revenue are are more likely to invest in improving and increasing capital and/or label
- The Government and Economy: Higher employ to a from the increases on benefits will fall. Equally, the government will also receive more tax high levels of consumption means overnment will receive more tax services. Further to this more mass or increased production means the revenue from the services of the economy and confidence will in a service and consumption. Economic growth usually entire in appear more expensive than foreign goods. UK exports will a likely to worsen the current account deficit.
- Living Standards: Economic growth is associated with increased living always the case. Economic growth indicates higher employment which poverty in an economy. If more people have incomes, then this should



Macroeconomic Objectives and Policies

1. a) What are the economic objectives of the government?

Sustainable, positive economic growth; low unemployment; law and stacurrent account equilibrium; balanced government budget; environment inequality.

b) Why are these the objectives of the government?

Sustainable positive economic growth can bring about greater living state improve well-being and help boost the economy through increased incompand for well-being and a drain on resources so the government aims to limite increasing living costs. Therefore the government is a laim to keep this limited can anticipate and plan for the government cannot surpose is leaving the economy the laim to keep this limited can anticipate and plan for the government cannot surpose is leaving the economy the laim government cannot surpose the environment of laim and alanced budget. It's a moral imperprotect the environment of laim gradely, the UK can be fined by the EU if it does along the laim of laim and and some economist argues it can boost economist.

a) Where the three macroeconomic policies? Fiscal, monetary and supply-side policies.

- b) What are the demand-side policy tools and how can each of these be the economy?
 - Fiscal Policy: <u>Tax</u>: Tax is a withdrawal from the circular flow of economy which affects aggregate demand, inflation and growth.
 - Government Spending: The government can inject money into the levels and stimulate an economy out of recession.
 - Monetary Policy: <u>Interest Rates</u>: The Bank of England is able to set as it influences consumption and investment.
 - Quantitative Easing: Banks are unlikely to lend to people if they do lend. Quantitative easing helps liquidity traps and enables greater stimulate consumption and investment.
 - Supply-side Policy: There is a variety of things a government can aggregate supply such as deregulation, reducing income tax or low

c) Who is in charge of the three policies?

The government is in charge of fiscal policy and supply-side policy, when charge of monetary policy.

3. What is meant by a fiscal deficit and why is this problematic?

A fiscal deficit means that government debt is increasing. A larger debt mean less money for the government to spend providing services and infrastructure

4. What is the difference between direct and it and others?

Direct taxes are imposed 'directly' care promise agent, such as a tax on the tax is a tax that is paid implicative and be avoided, such as a tax on certain

5. What to old the Bank of England? The Bank of England is in charge of control

he Bar and is in charge of controlling and maintaining stable inflat

6. 'Supply-side policies are better for the economy than demand-side policies used is because the time lags mean politicians won't see results in time for you agree with this statement?

Unlike demand-side policies, which typically cause inflation, shifting the age has downward pressure on prices through competition and improvements to of economic growth that can be sustained as resources are generally improve Equally, increasing production and economic growth will mean there is job of the level of unemployment. By improving the productive capacity of an economic growth will mean there is job.



production, an economy will become more competitive in the global market increase and which will improve any trade deficit.

However, supply-side policies have long time lags; improving the quality of education can take 13 years. Data collection is slow and long-winded. The ingovernments may not only be inaccurate but also out of date, causing the gopossibly incorrectly. Further to this, although the government can manipulate has some influences that the government has no control over. The government shocks. Supply-side policies can also be very costly, which would have a negovernment budget.

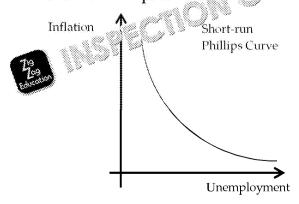
- 7. How does fiscal policy conflict with other policies and the government's of Increased government spending may help to boo to a common out of a recession will be likely to result in increased and the future. This tax increates a personal approach, but will receive to work and could worsen how the tax is implement. Each Ly, reducing government spending may minvestment in school haspitals. This can have a negative impact on the live conorment spending may necession, the government shifted focus to reduce go spending overer, this was met with outrage by the public who feared losing on education quality. Cutting benefits also has the potential to worsen inconthose who may need the benefits for survival.
- 8. How does monetary policy conflict with other policies and the government The Bank of England has independent control over the interest rates in order increasing interest rates can be damaging to some people; for example, new pay a mortgage. This could worsen wealth distribution. Monetary policy car policy. If interest rates are high then this will discourage new start-up busine within the market.
- 9. How do supply-side policies conflict with other policies and the government Supply-side policies that improve infrastructure will improve the efficiency damage the environment. Areas of forests, for example, may be cut down in Equally, supply-side investments will come out of the government's budget deflationary fiscal policy.
- 10. What are market-based policies?

Market-based policies aim to work alongside the market forces to manipulat

11. What are interventionist policies?

The government has a direct role with interventionist policies and intervenes the economy.

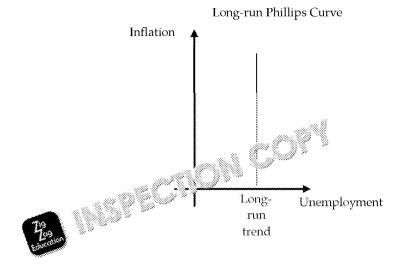
12. a) Draw a short-run Phillips curve.





b) What does the Phillips curve show in terms of meeting all the governs The Phillips curve shows that an economy cannot have both low inflation there is a trade-off between the two.

c) Draw a diagram to show how the Phillips curve might look in the lon



d) Name and explain three other conflicts that might arise in the government of the second conflict between economic growth and inflation. Economic graincrease in aggregate demand. An increase in aggregate demand not on increases the price level. Therefore, as an economy grows, it will tend to too. One way to increase growth without increasing prices is to increase economists believe this is the only way to create economic growth becauseurve, any increase in aggregate demand will only result in price increase.

There is also a conflict between economic growth and the current accoust people's incomes rise, people will spend more on imports. As imports redeficit (or improve a surplus). Equally, as the economy grows and inflat appear more expensive in relation to foreign goods. This means exports rising imports could create a negative current account (deficit).

Lastly, economic growth also conflicts with the government's environmental degradation of negative externalities. Pollution and environmental degradation environment is not accounted for in the market system. Economies generow, which will use up more of the finite resources. With more productions fuels and with the expansion of new factories, offices, hospitals, et space, which may currently be inhabited by nature. China is a clear example high rates of economic growth and their low rates of clean air and are particularly damaging to the environment degradation of their industrialisation concerns are quickly forgotten with the separation growth rates, and contensive forms of production.





Answers to Exam-style Que

Exam-style Questions 1

1. Describe the difference between real GDP and nominal GDP.

The key point here is that real GDP adjusts for inflation so that values can be compais correctly interpreted.

2. Which one of the following is correct?

- A In the case of constant prices (0% inflation), real GDP will rise faster
- B Real GDP is adjusted using the unemployment rate.
- C Nominal GDP adjusts all values relative to a line year.
- D If inflation is positive, nominal GD will use faster than real GDP.

Answer D is correct: if inflation is the first nominal GDP will rise faster than rising as well as economic to have a ward 1 mark for the correct answer.

3. Defin Corn disinflation'.

Disinflation. Prices are still rising (not negational for the correct interpretation.

4. Explain one limitation of using GDP as a measure of growth.

These are covered in the text. Award 1 mark for an appropriate answer. Answers in

- GDP does not take into account equality and how the growth is distributed.
- GDP does not factor in resource depletion or environmental degradation.
- If something is destroyed and then replaced it counts as growth.
- GDP does not take into account happiness or well-being.

5. Name and explain briefly three different effects of inflation.

The effects include diminished value of savings, shoe-leather costs, menu costs, discointernational competition. Award one mark for each that is mentioned and explained

6. Describe the process of creating an index for inflation.

Award a mark for each correct point made:

- Selection of a basket of goods and services which represents the consumption ch
- Each good is assigned a weighting based on its respective importance
- Price increases are multiplied by the weight for each good and summed togethe
- Price changes are analysed respective to a base year

7. Define the claimant count measure of unemployment.

The claimaint count measures the number of people claiming unemployment benefits mark for the correct definition.

8. Which one of the following cannot be trea from information in the tab

- A More people were unample of an England than in Wales.
- B A higher provide a people in Northern Ireland were unemployed that
- C E h waste people in its workforce than Wales, Scotland or No.
- D A proportion of Scottish people were unemployed than Welsh

The answer is D: A higher proportion of Scottish people were unemployed than Welsare 2.8% for Scotland and 3% for Wales. Award 1 mark for the correct answer.

9. Which one of the following is correct?

- A The CPI method of recording inflation aggregates price changes for all g
- B CPI and RPI are identical measures.
- C Some goods are given more importance than others when calculating
- D CPI is always positive.

The answer is C. This refers to the method of assigning goods different weights. Awa



Exam-style Questions 2

1. Define the term 'disposable income'.

Disposable income is the money available to people once taxes have been subtracted a can choose to save or spend the income. Award 1 mark for a correct interpretation w

2. An individual receives a windfall of £1,600. Their marginal propensity to 6 how much of the extra income the individual will use for consumption. $0.4 \times 1600 = £640$ will be used for consumption.

Award 1 mark for the correct answer.

3. Suppose that the individual chooses to save if we extra income and no MPC be?

In this case MPC would be 0 1 was 2 we above it would be £0 out of £1,600 = 0/

Award 🌉 fc 🧼 rect answer

4. Explain ne factor that may influence the level of aggregate investment.

Factors mentioned in the text include: the rate of economic growth, business expectarates, access to credit, and government regulation. Award 1 mark for correctly ident

5. Define the term 'aggregate supply'.

explaining it briefly.

The most simple definition is the total amount of output in an economy. It is the supspecified time period. Award 1 mark for a correct interpretation.

6. What type of inflation is shown by the diagram below?

Demand has shifted out and 'pulls' costs upwards. This is demand-pull inflation. A







Exam-style Questions 3

- 1. Which one of the following can be inferred from chart above?
 - A The UK's economy shrank between Q2 2014 and Q1 2015.
 - B Between 2010 and 2015 the UK's economy had consecutive quarters
 - C The highest growth during the period was in 2014.
 - D The UK's economy grew overall in 2010.

The answer is D: The UK's economy grew overall in 2010 despite the fact that grow the correct answer.

- 2. Which of the following statements is not true?
 - A In a boom an economy produces abov in It is term trend rate of gr
 - B An output gap is the differer we actual growth and the long
 - C In the long term, the transfer growth is always 0%.
 - D During a recs and recommendation of spare capacity in an economy that is not the ansature D. Solon signifies a negative output gap during which resources maxim. Award 1 mark for the correct answer.
- 3. Describe the idea of loose monetary policy and how it can be used to stime By decreasing interest rates the central bank hopes to cut borrowing costs. This show incomes and promote spending, thus boosting the economy. It may cause inflation to (0.5%) then it becomes impractical to lower them further and monetary policy may be 3 relevant points.
- 4. Describe the main trends shown in the graph.

The key point is the sharp decline in interest rates following the 2008 financial crisis near-zero rates (0.5%). Prior to the crisis rates were higher and tended to vary year correct observations.

5. Explain the difference between direct and indirect taxes.

Award 1 mark for a correct definition of each. In the case of a direct tax, the taxpayer An indirect tax is paid by a middleperson who does not bear the burden of the tax. A tax. An example of an indirect tax is VAT.

6. Calculate the multiplier if Marginal Propensity to Withdraw (MPW) is 0.4 The multiplier = 1/MPW = 1/0.4 = 2.5

Award 1 mark for the correct answer.





Glossary

Aggregate	Total, the sum effect of the individual parts
Basket of goods	The name given to a list (basket) of items (goods) bought by an a
	accumulated from the Living Costs and Food Survey.
Brain Drain	Emigration of highly skilled or educated workers that causes a co
Commodity	A good that is common . Usually simple goods, such as milk or w
	is very little difference between each product, i.e. milk from one another farmer. This inability to distinguish between the goods is
	'homogeneous goods'.
	Goods that can be differentiated are called leterogeneous; for o
	considered heterogeneous goods let we each smartphone has
	tariff, camera specification et
Deflation	A sustained fall are a price level
Deflationary fiscal	What we wiment tries to 'deflate' or reduce the economy
policy	or currently in a boom. To deflate the economy, the go
723	pending and/or increase taxation. This will decrease the AD cur
Education	fallen (deflation) and GDP has fallen to Y_2 .
Disinflation	A fall in inflation, i.e. a fall in the increase of general price level
Economic Shock	An event that upsets the dynamics and the equilibriums in an ed
	change can happen within (internal) or outside (external) an eco
Economically Active	People who are willing and able to work whether they are emplo
Economically	People who are of working age (16–64) but are not available or
Inactive	unable due to a disability, those who have chosen to stay at hon
	retired early
Emigration	An outward flow of people (people moving away from a country
Employment	The name given to a used resource; a worker who has a job and
	employment
Expansionary fiscal	Where the government tries to 'inflate' or boost the economy, u
policy	inflate the economy, the government will increase government
	This will increase the AD curve from AD ₁ to AD ₂ . GDP has risen b
Factor Immobility	The inability of factors of production to change or move
Fiscal Instruments	Government Spending and Taxation
Geographical Immobility	The inability of resources to move geographically
Government Budget	When the money coming into the government is less than the m
(Fiscal) Deficit	revenue and government spending. A fiscal deficit is not the san
	linked to the idea of stocks and flows. The overall debt is a stock
	owed. The deficit is a flow, a variable amount measured over a p
	need to borrow money to finance a deficit hich in turn creates
Government Budget	When the money coming into the low imant (tax revenue) exceptions
(Fiscal) Surplus	spending). The value or such as their skills, knowledge.
Human Capital	The value or Count of Asorker, such as their skills, knowledge, Investigation of a human a
د . د <mark>هختی</mark> ن ۵	tys an investment in human capital. It increases the ed
	acreased wages a degree offers is the return on the investment
Immigration to the last of the	An inward flow of people (people moving to a country)
Income	The money that a person receives in exchange for something, e.
	from letting a property. It moves from one agent to another; it is
Inflation	A sustained rise in the general price level
Injections	Things that outside economic agents do with their incomes that
-	the circular flow. There is now more money going around the sy
Interventionist	Interventionist policies are the opposite of market-based policie
Policies	an active role within the economy. Its role is to intervene in order
	market may generate and to guide an economy to a better equil



OPYRIGHT ROTECTED



In economics, investment means firms have spent money in order to increase their ability to produce more consumer goods/services in the future. Investing increases a firm's 'productive capacity' and will thereby increase profits.

All factors of production can be changed

When inflation is expected to fall below target rates; the MPC will loosen its monetary policy by decreasing interest rates and/or increasing money supply. This will cause the AD curve to shift outwards to AD₂; price level has risen and so has GDP.

additional/extra bit

The proportion of the additional bit of income that goes to consumption

There is very little government intervention with market-based policies. The idea of these policies is to support and use the forces of the free market to increase efficiency, productivity and aggregate supply. Market-based policies try to boost aggregate supply by improving the ability of the free market to function and removing any barriers.

Movement of people between countries

Interest Rates and Quantitative Easing

The end sum of immigration minus emigration (positive net migration = more people have entered a country than left; negative net migration = more people have left a country than entered)

the inability of resources to swap from one industry to another

Equal

Per person

Ability

Portion

Rules and regulations put in place to protect the domestic economy from foreign competition. Import taxes, subsidies to domestic firms and quotas are all examples of protectionism.

Buving

The ability (power) to buy things (purchase)

At least one factor of production is fixed, they are not all variable

Currency that is pegged to the value of gold.

The proportion of income that will be leaked by buying imports

The proportion of income that will be leaked by saving

The proportion of income that will be leaked due to taxes

The process occurs after an injection into the economy and causes it to grow beyond the original amount injected.

Implemented when inflation is expected to exceed targets. The MPC will attempt to restrict aggregate demand by increasing interest rates and/or decreasing the money supply. Using the diagram from Fiscal Policy, this will cause the AD curve to shift inwards from AD_2 to AD_1 ; price level has fallen but so has GDP.

A worker is employed, but this differs from employment because the job does not fully utilise their human capital

The name given to an unused resource; a worker who is economically active but without a job

The money that a person holds. It may have built up from wages or investment returns, but it does
not go anywhere. It is seen as a **stock** as it is money that is kept stored. Wealth can be savings
accounts or items such as houses (assets).

Things that economic agents (within the system) do with their incomes that result in taking money out of the circular flow. By taking money out of the circular flow it is no longer going around the diagram.

Exam Tips!

Edexcel has designed this specification to create critical and broad-thinking economists. Try to remember the objectives when you write your answers because these are the skills they will be looking out for when they mark your exam papers.

Edexcel wants you to...

- Be critical
- Understand the economic concepts and be able to apply them to various sit
- Understand the theories and ideologies from various ols of thought
- Be able to draw on real-world examples (the an not seed to remember examples) you can add in a sentence or two
- Make connections and links wire spinishe topics in each theme relevant to t

The Struc

f ۱۹۱۱ محند ۲۹۱۲ f

Paper 2: The economy – performance and policies

Time: 1 hour 30 minutes

✓ Total Marks: 80

Paper 2 looks at Theme 2, so it is a macroeconomic paper. Do not confuse micro try to keep them clear and differentiated in your mind! (*Paper 1 is similar in strue*)

Within both papers there are two sections which require slightly different skills...

- Section A includes both multiple-choice questions (1 mark) and short-answers section tests a broad spectrum of your microeconomic/macroeconomic knowledge (AO1) and application (AO2), but note that there are also a few in
- **Section B** uses real-world examples and provides data for you to analyse a is one question which is broken down into sub-questions. This section requithe ability to use higher-order skills (such as evaluating, comparing and contact this section, you should focus on providing not only AO1- and AO2- but also
- Finally, at the end of Section B, there are two long-answer questions, of which answer both! They are 'open response' questions, which means they require questions are usually in the form of 'evaluating' a topic or point, or 'to what statement. This question will require answers showing the full range of skills

The Structure of the Exams: A Level

Paper 1: 'Markets and business behaviour' and Paper 2: 'The national and

∑ Time: 2 hours per paper
✓ Total Marks: 100 per paper

Paper 1 looks at Themes 1 and 3, which are microeconomic. Paper 2 looks at Themacroeconomics. Do not confuse micro concepts: The following try to keep in your mind!

Within both papers there are the less which all require slightly different sk

- Section A includes in supre-choice questions (1 mark) and short-answers section as a spectrum of your microeconomic/macroeconomic knowless (201) and application (AO2), but note that there are also a few many controls of the section (AO2).
- Section b uses real-world examples and provides data for you to analyse a is one question which is broken down into sub-questions. This section requitive ability to use higher-order skills (such as evaluating, comparing and continuity section, you should focus on providing not only AO1- and AO2- but also
- Section C provides two questions; you have a choice as to which one you an are 'open response' questions, which means they require an essay-style ans in the form of 'evaluating' a topic or point, or 'to what extent do you agree' question will require an AO1 and AO2 response, but do not focus too highly mainly be looking at higher-order skills and AO3- and AO4-level answers.



Paper 3: 'Microeconomics and macroeconomics'

Time: 2 hours
 ✓ Total Marks: 100

Paper 3 looks at all four themes. This means that the questions test a mixture of

The paper is split into two sections, and you will need to answer questions from a 'data-response' question which will be split into sub-questions. Also in each secresponse' questions and you can choice which one you answer. Each section beg which you should remember to analyse and refer to in your answers, as required questions asking you to refer to the data, and references in the questions such a make sure you only answer questions you need to where there is an either/or ch

How the Examiner Awards Marks

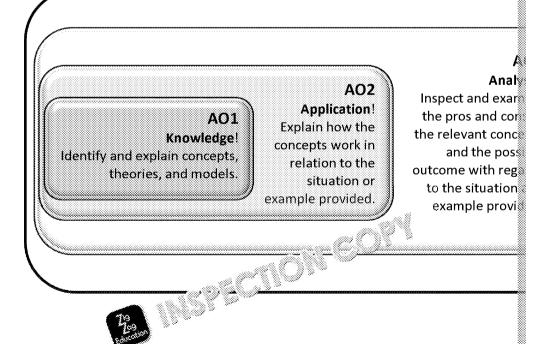
Show the examiner you know your stuff and how in maile it easy for them to give

This section will guide you can be now present your answers in a way that the knowing what the experience should be now in a sking and what student will be you are better able to demonstrate you know your economics marker to a low our more marks!

Some of this stuff may seem like common sense – but read it and remember it w will help you to organise your thoughts and get into the mindset Edexcel are look

Assessment Objectives

Assessment Objectives, or AOs, determine the level of your answers and show the should award. Not all questions will require all the levels; make sure you have full gain the highest marks, without wasting time on answers that go above and bey





Meaning of the Command Words (Taxonomy)

It may seem obvious to some of you that when the question asks you to examine kind of answer they are looking for. But the exam board have tried to stick to the questions to suggest the structure and answers on the mark scheme. This section meaning of the words, but about ensuring you know exactly what Edexcel are ge same wavelength.

These are the key command words for the longer questions:

'Examine...'

This kind of question is looking for you to answer, 'why does the topic of the an informed judgment, which is a chance for you as a student to express you opinion. But you will not need to give a decision

'Assess...'

This kind of question wants voice of the topic. You will need points and concepts having which are most relevant. Provide your judge decision

• 'Discus

This question, will require you to identify the topic in question, consider and then debate the relevance or importance of these ideas. Again, you will nee decision is not needed.

• 'Evaluate...' / 'To what extent...'

For this question, you will need to consider the information provided, then relevant concepts and the provided data. You should give your judgment and the topic in question, in an all-inclusive conclusion.





Be Careful and Remember

How to Tackle a Question

It's a good idea to underline the key words while you're reading a question. This points and skills the question is testing. This also means that when you come bacquickly recognise what you're supposed to be checking for.

Essay-style and long-answer questions will require an answer that is succinct, stresem like a waste of time, but spending just a few minutes brainstorming and playour response, save time in the long run and make it easier for the examiner make examiner's life easy by showing them what you know – remember that this is you knowledge! By planning what you are going to say and in which order, you will make Equally, this gives you a chance to trawl through your make you and draw upon rethrough writing and forgotten the other not to be used going to mention, or the have to tack on? If you have a plan is a place you through all the points you the

Timing

In the A Leven syou have two hours (120 minutes) to answer the questions time up and anating how long you should spend on each question will mean and give yourself time to check. Equally, if you know you have a limit, and keep to going too in-depth on a question that won't reward you for it.

Split the time using the marks as a weighting:

- 2 hours = 120 minutes
- Take out 20 minutes for reading the data, planning and checking at the end, minutes to write 100 marks (20 minutes is only as a guide, you can adapt the calculation more rounded and easy).
- 1 mark = 1 minute
 So, if you have a 5-mark question, spend 5 minutes answering it. If you have minutes answering it.

If you have extra time:

- 2 hours + 25% = 150 minutes
- 150 minutes to make 100 marks, excluding checking time, isn't such an easy minutes for checking and this leaves you with 120 minutes to write 100 marks
- 1 mark = 1.2 minutes, or, 5 marks = 6 minutes So, if you have a 15-mark question, $\left(\frac{15}{5}\right) \times 6$, spend 18 minutes answering is spend 30 minutes answering it.

In the **AS** exams, you have 90 minutes for 80 marks, so roughly 10 minutes plann mark again.

Things to Always Check Before Finition

- Each axis on your graph: @ ells I, and labelled correctly
- Lines/curves or " " s we labelled, and labelled correctly
- Micro (При ts) за керт for micro questions
- Macro wits are kept for macro questions
- Calculations are correct. Start with the end number and work through the calculations are correct. Start with the end number and work through the calculations are correct.
- You have answered all the questions you need to answer, all sub-questions looking for

