

Data Response Case Studies

For AS/A Level Year 1 OCR Economics: Macroeconomics

Second Edition, February 2022

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Contents

Thank You for Choosing ZigZag Education	
Teacher Feedback Opportunity	
Terms and Conditions of Use	
Teacher's Introduction	
The UK's slump in consumption during the recession	
Case Study	
Questions	
The economics of immigration	
Case Study	
Questions	
Economic growth in the UK – back to business as usual?	
Case Study	
Questions	
Mozambique – an African lion?	
Case Study	
Questions	
Youth Unemployment in Italy	
Case Study	
Questions	
UK unemployment – successes and challenges	
Case Study	
Questions	
UK inflation in the 1970s	
Case Study	
Questions	
Canada's Economic Policies	
Case Study	
Questions	
Greece's debt problem	
Case Study	
Questions	19
Monetary and fiscal policy in the Great Depression	20
Case Study	20
Questions	21
Ireland's Housing Market Bubble	
Case Study	22
Questions	24
Supply-side policies – privatisation in the UK	
Case Study	
Questions	
Productivity - the Key to Long-run Growth?	
Case Study	
Questions	
Policy conflicts – inflation and unemployment	
Case Study	
Questions	
China and Exchange Rate Management	
Case Study	
Questions	
Should we be worried about the UK's current account deficit?	
Case Study	
Questions	
When will the UK raise interest rates?	
Case Study	
Questions	
Answers	

Teacher's Introduction

This resource is designed to be used for teaching OCR AS Level Economics Component 2: Macroeconomics. It is designed to be co-teachable with A Level, covering only 'Year 1' topics. The resource consists of 17 Data Response Case Studies intended for students to complete as homework tasks.

The case studies are presented in specification order, collectively covering each topic in the AS Level specification. Each case study contains detailed information (including diagrams and data), and tasks and questions.

The 'Use the data' tasks focus particularly on quantitative skills, and the 'Test your knowledge' mainly on AO1/2 knowledge and application skills. The extended-response questions are an opportunity for students to practise higher-level analysis and evaluation skills. Most of the questions given are in exam style, although we have not limited questions to this style except in the case of the extended-response questions. Detailed answers are provided for all tasks and questions.

Reading through each study and answering the questions is expected to take 20-30 minutes, not including the extendedresponse questions at the end of each case study. One option for using these is to work through a case study in class and set the exam-style evaluation question as homework.

This resource will help prepare students for the Paper 2 component of the AS and A Level exam, but also stimulate an interest in the real-world applications of macroeconomics. Each case study uses real data, introducing the student to a fascinating array of contemporary and historical issues relating to the UK economy.

I hope this resource helps you to bring economics to life for your students.

March 2018

Update v2, February 2022

Minor updates to match 2019 specification: case studies have been rearranged to reflect the new divisions between Year 1 and Year 2 content. The case studies contained in this resource are as below.

	Case Study	Spec reference
 The UK's sl the recessi 	lump in consumption during ion	Aggregate Demand and Aggregate Supply – 'Aggregate Demand (AD)'
2. The econo	mics of immigration	Aggregate Demand and Aggregate Supply – 'Aggregate Supply (AS)'
3. Economic business a	growth in the UK – back to s usual?	Economic Policy Objectives – 'Economic Growth'
4. Mozambiq	ue – an African lion?	Economic Policy Objectives – 'Economic Growth' and 'Development'
5. Youth une	mployment in Italy	Economic Policy Objectives – 'Employment'
6. UK unemp	loyment – successes and challenges	Economic Policy Objectives – 'Employment'
7. UK inflatio	n in the 1970s	Economic Policy Objectives – 'Inflation'
8. Canada's e	conomic policies	Implementing Policy – 'Fiscal Policy'
9. Greece's d	ebt problem	Implementing Policy – 'Fiscal Policy'
10. Monetary Great Dep	and fiscal policy in the ression	Implementing Policy – 'Fiscal Policy' and 'Monetary Policy'
11. Ireland's h	ousing market bubble	Implementing Policy – 'Fiscal Policy' and 'Supply-side Policy'
12. Supply-side	e policies – privatisation in the UK	Implementing Policy – 'Supply-side Policy'
13. Productivit	ty – the key to long-run growth?	Implementing Policy – 'Supply-side Policy'
14. Policy conf	flicts – inflation and unemployment	Implementing Policy — 'Policy Conflicts'
15. China and	exchange rate management	The Global Context – 'International Trade' and 'Exchange Rates'
16. Should we account de	be worried about the UK's current efficit?	The Global Context – 'Balance of Payments'
17. When will	the UK raise interest rates?	Various topics in Component 2

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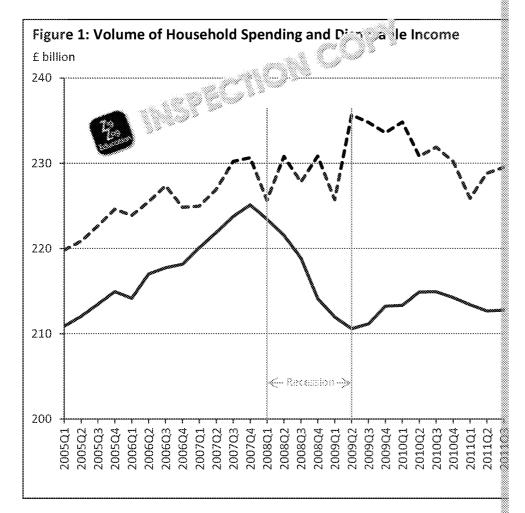
> * resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

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The UK's slump in consumption during

This case study requires knowledge of the topic 'Aggregate Demand.' You should of AD and the influences on these components (particularly a

The 2008 global financial crisis had a pronounced effect on aggregate demalargest component of aggregate demand is consumption – accounting for Figure 1 shows how household spending (which is equivalent to consumption:



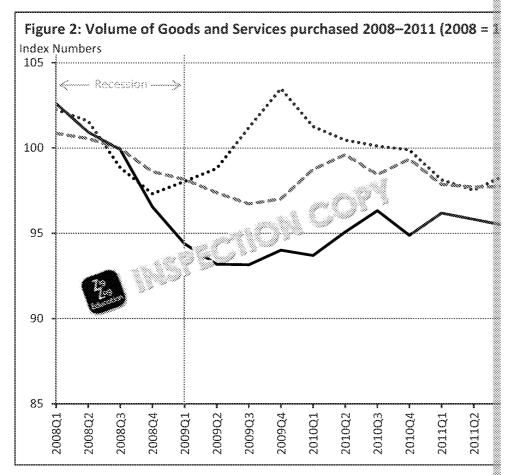
The Labour government at the time attempted to reverse the trend using many tools, such as adjusting taxes (e.g. lowering AT and increasing the income tax threshold), bailing continuous narical sector, and relying on the Bank of England to the rates (interest rates fell steadily from 5.75% is 20% addown to 0.5% by 2009 Q2.

It is intered to be impare the trend in disposable income with the trend in hould spending. Even though disposable income remained fairly constant (even increasing in 2009), household spending fell sharply. This is despite the fact that disposable income is usually believed to be the main factor affecting consumption.

The main explanation for this is that household saving increased in the sain households chose to pay off their debts that they had accumulated during mid 2000s. In economic terms, paying down debts is classed as saving.



Figure 2 shows how consumer spending on different types of goods was a



Non-discretionary goods and services are essential products, such as staple Discretionary goods and services are desirable, but not necessary. Example leisure activities.

Since 2011, consumption seems to have grown slowly but steadily as the gifinances improved.

Use the data

- 1. Is the data in Figure 1 in real or nominal terms?
- 2. Looking at Figure 2, estimate (in percentage terms) how much discretionary (quarter 3) and 2009 Q3.
- 3. In 2009 Q1 (quarter 1), was spending on discretionary goods and services his non-discretionary goods and services:

Test your knowledge.

- Define (AD).
- 2. What is formula for aggregate demand?
- 3. By approximately how much did household spending fall between its highest as shown in Figure 1?
- 4. Using an AD curve, show the effect of a fall in the rate of VAT.

Extended-response question

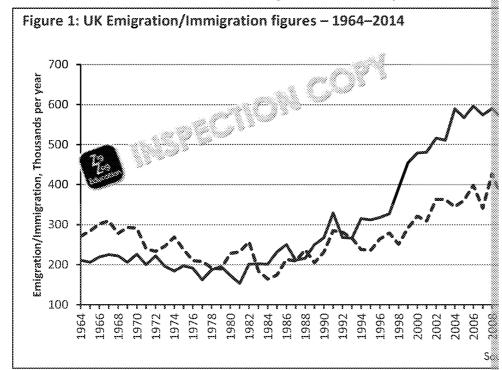
 Discuss the relative importance of interest rates and consumer confidence in demand.



The economics of immigration

This case study requires knowledge of the topic 'Aggrega

The humanitarian crisis in Syria has revived old debates about the effects host' nations. There are a plethora of arguments related to the *social* consinformation on the *economic* effects of migration is relatively scarce.



There are several different areas of the economy that migration studies material areas is the effect of migration on the wages and employment rates of native belonging to the host nation). The concern is that the influx of labour dependent (using a simple demand and supply diagram, immigration is supply of labour).

Others counter that this argument falls foul of the 'lump of labour' fallacy: the fallacy that there are only a fixed number of jobs to go around in the economy. Since migrants also contribute to greater demand for goods and services, the negative effect on employable and wages may be only temporary.

Evidence on this is mix and US, some studies have found the first small, negative effects on native wag. European studies have tended to produce 'statistically insignificant' results (meaning that the estimates of the wages are probably close to zero). On the other hand, there is some evident

The differences in results may be because labour protection laws in Europe quite inflexible (or 'sticky'), but the labour market in the US is more *laissez*

that immigration instead reduces the employment levels of natives (peopl

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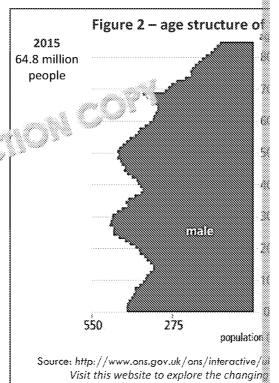
due to the greater competition for jobs).

observation is that the effect on natives depends on whether the migrants Unsurprisingly, skilled migrants seem to benefit host nations more.

One of the benefits supporters of migration point to is that it boosts the size population – since migrants tend to be young people looking for work. The increase the size of the labour force as a proportion of the total population the UK's 'population pyramid' in 2015. The bulges show the effect of 'bab

One of the counterarguments to this is that migration simply delays the 'demographic time bomb' facing developed countries – there will still be the problem of an ageing population in the future even after migration levels tail communication.

The econor guments around migration are highly complex and often country-specific – as a discipline economics is a long way off from resolving all the nuances.



Use the data

'Net migration' is the difference between immigration and emigration — an annul 100,000 indicates that 100,000 more people immigrated into a country than emigrated

- 1. When did immigration figures begin to consistently overtake emigration figures
- Estimate net migration into the UK in the years (using a ruler might be helpf
 (a) 2006
 - (b) 1979

The working age population consists of those people aged 16-64. Looking at Fig.

- 3. Suppose one million migrants aged 20–29 came to the UK and gained emplored effect on the labour force participation rate?
- 4. Now suppose that the birth rate and death rate en ins sonstant, and no me would the labour force participation rate is after 50 years?

Test your knowledge

'Net migration the land between immigration and emigration — an annual 100,000 inc. hat 100,000 more people immigrated into a country than emigrated into a

- 1. Estimated migration into the UK in 2010.
- 2. Briefly describe the trend in net migration from 1964–2014.
- 3. Distinguish between short-run aggregate supply and long-run aggregate sup
- 4. State and explain two other factors that can increase LRAS, aside from dem

Extended-response question

Using information from the extract and your own knowledge, evaluate the encouraging higher levels of migrant workers.



Economic growth in the UK — back to bus

This case study requires knowledge of the topic 'Economi

The financial crisis of 2008 saw the UK experience the worst recession since the Great Depression. The recession saw rising unemployment, a dramatic fall in bank lending (credit), and unprecedented stimulus measures from the UK government and Bank of England to try to steer the economy back towards positive growth.

Now that the worst of the crisis seems to be of ending commentators and external organic for salauch as the IMF) are optimistic about the future of the common of the crisis seems to be of salauch as the IMF) are optimistic about the future of the common of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of ending to be salauch as the IMF) are optimistic about the future of the crisis seems to be of the crisis se

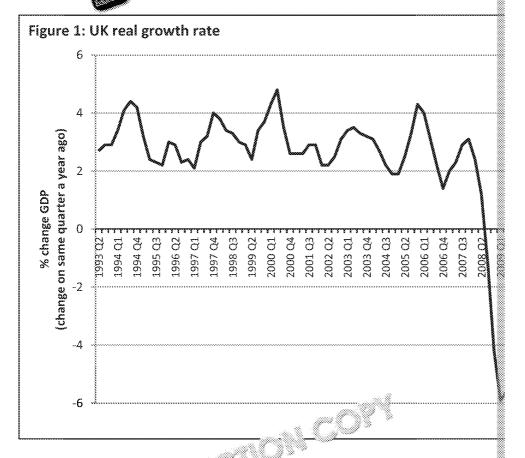


Figure 2

G7 Cot	υK	Canada	USA	Germany	Fran
2014 annu	2 0	2 /	2./	1 6	
GDP growth rate	2.9	2.4	2.4	1.0	0

Many other economic indicators also seem to be showing signs of health—budget deficit is slowly narrowing (although not as quickly as the Chancel wages are rising for the first time in several years (particularly notable sin Some attribute this to sensible economics on the Chancellor's part—strong responsibility seem to have boosted market confidence (the costs of borrow



have remained low – unlike imperilled economies such as Greece). Others government spending more gradually would have led to more reliable gromore to do with the revival of the world economy than any policy of the Cool has also been an unexpected bonus for the UK as a net importer of oil.

In the 2015 Autumn Statement, the Chancellor announced relatively expandesigned to boost economic growth, rather than lower the national debt) a economic growth predictions by the Office for Budget Responsibility (OBI included postponing cuts to tax credits, and increasing the police budget a

Critics argue that predicting economic growth rates in toriously difficult on forecasts is a risky move. There are some area of a last to the UK and the including a slowdown of economic grown in china, and a chronic shortage market. Hopefully the fore a left and the predict that the UK will return the can't know for sure



Use the data

- 1. Estimate the average annual rate of GDP growth in the UK from 1993 to 200
- 2. Briefly describe how Figure 1 would change if nominal GDP figures were use
- 3. Suppose the USA's real GDP at the start of 2014 was \$17 trillion. What would the figures in the extract?

Test your knowledge...

- 1. Define real GDP. How does it differ from nominal GDP?
- 2. Why is GDP measured?
- 3. Give two reasons from the passage why the UK's growth rate was relatively
- 4. Explain one cost and one benefit of economic growth.

Extended-response question

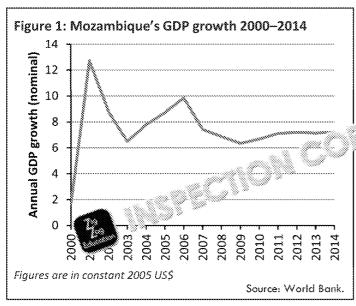
 'Once population size and inflation are accounted for, GDP is a good measure economy is.' Evaluate this claim.





Mozambique — an African li

This case study requires knowledge of the topic 'Economic Growth



African economies in the media – for perception of African under-developed. However, there are number of African potsteps of the Asseconomic growth among these stellar Having shed its coa 16-year civil was Mozambique's economic growth.

Mozambique's hu

(particularly coal and gas) have made it a vital trade partner for China and to a strong currency (the metical) and high levels of foreign investment in

Having abundant natural resources does not always translate into economic have suffered from the so-called 'resource curse', where excessive depends harms economic growth. This could be because other industries are neglecaptured via corruption. However, in the case of Mozambique, the benefit endowments have been augmented by sound macroeconomic management education spending and policies to promote competition. Mozambique no business hubs, complete with shopping centres, restaurants and traffic jan

Despite all this, there are concerns that this surge in economic growth is not development. Figure 2 shows the components of the HDI index for Mozan disappointing 180th out of 188:

Country	HDI value (2014)	HDI rank (out of 188)	Life expectancy at bir∵	Expected years of schooling	0
Mozambique	0.416	180	F ₂ ,1	9.3	
India	0.609	136	68	11.7	
UK	0 %	14	80.7	16.2	
San San			Health	Education d	,

Figure 2

Note: 'Expected years of schooling' is for children entering school age, 'mean years of school sc



One of the big concerns is that poverty rates (one of the key dimensions of economic development) are still high, with over half of the 25 million people in poverty. If the gains from economic growth do not trickle down into all parts of society, Mozambique's success may be short-lived. African history is littered with examples of countries where corruption chokes off economic development.

Furthermore, as with many developing countries, there is a substantial gap in living standards between the urban and rural populations (the same is true of some countries that bit more developed, including China). Many resear he sargue that improving agricultural productivity in the most important ways of closing this gap, sire a very migh proportion of the rural workers' income deposit of pragriculture.

Zan

Zimbat

Sout Africa

Use the data

- 1. Briefly compare Mozambique's GDP growth rate to the UK's.
- 2. Look at Figure 2, what does it mean to say that the living standards figures a
 - (a) GNI (rather than GDP)?
 - (b) per capita?
 - (c) PPP?
- 3. In Figure 2, what does the difference between the mean years of schooling a schooling indicate about the progress of development in Mozambique?

Test your knowledge...

- State one other indicator of development, other than those included in the living standards).
- 2. Identify two causes of Mozambique's high economic growth.

Extended-response question

Discuss the importance of having abundant r പ്രാപ് ചി പ്രാധനാല for economic such as Mozambique.

____quali



Youth Unemployment in Ita

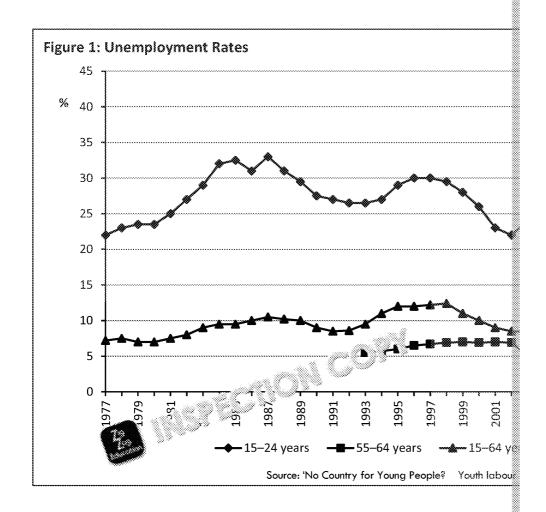
This case study requires knowledge of the topic 'Unemploymen's

The economic crisis of 2008 had many short-term consequences – banks needed bailing out, monetary and fiscal policy needed loosening, firms needed to lay off workers. Although the general consensus is that the worst of the crash seems to be over, some problems look set to persist in the long term. For some Eurozone countries, few issues are more worrying than that of youth unemployment.

Italy's over the parameter ate hit a high of 12.4% in 20 his alone is cause for concern, compared with rates of 7.7% and 5.3% for the



UK and Germany respectively (both of which fell continuously through to shows, when Italy's unemployment rate is broken down by age, the result





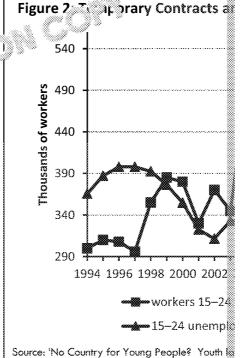
Research conducted by the Centre for Economic Policy Research (CEPR) so explanations for the rise in youth unemployment rate:

- The system protects existing, older workers, with young people typical temporary (fixed-term) contracts (see Figure 2).
- 2. More young people chose to go into higher education this decreases young (since those in education don't count as part of the labour force increases the unemployment rate, ceteris paribus.
- 3. Although there have been difficulties for low-skilled NEETs, (Not in Faraining), there have also been difficulties for graduates. University a young people study to degree

level, but the supply of available graduate jobs has not kept up. In economic terms, this is referred to as structural unemploy and

The fear is young people are unemployed too long, they will struggle to adjust to the world of work throughout their lifetime ('lost generation'). Furthermore, there is some evidence of a 'brain drain', as young people emigrate to seek more promising job opportunities.

It is clear that the Italian government will need to find a far-reaching strategy to combat the youth unemployment problem – before it gets any worse.



Use the data

Using data from Figure 1:

1. Compare the trend in unemployment for the 55–64 age group with the 15–

Using data from Figure 2:

- 2. (a) By how much did the number of temporary contracts change between
 - (b) Describe the trend in the unemployment rate by the 1994 and 2007.
- 3. Describe a potential policy that could be use to try to fix the youth unempto some limitations or disadvantages to see the policy.

Test your lase...

- 1. One of subsons for the rise in youth unemployment was that more your study, rather than participating in the labour force. Explain how this leads to using the formula.
- 2. State two types of unemployment not mentioned in the text.

Extended-response question

Discuss the negative effects of unemployment on society and the economy.
 should also consider cases where unemployment may not be a concern in the



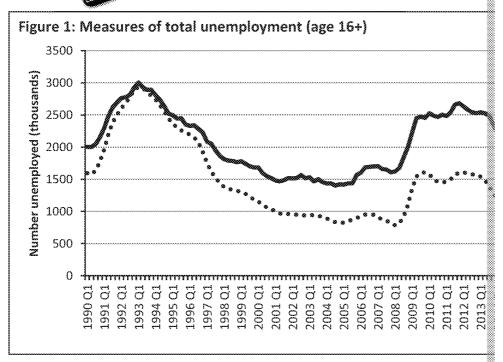
UK unemployment – successes and

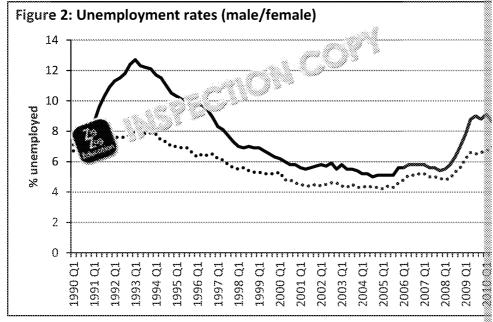
This case study requires knowledge of the topic 'Employment/

Unemployment refers to the situation in which an individual is actively seeking employment, but is unable to find work. Unemployment can be one of the most persistent and damaging economic problems. Some Eurozone countries such as Spain and Italy have experienced eye-watering levels of youth unemployment since the financial crisis of 2008 – leading to fears of a 'lost generation'.

The UK was also buffeted by a crown in memployment following the crash, as crown in a rand 2 show, but since 2013 the situation in the improved dramatically.



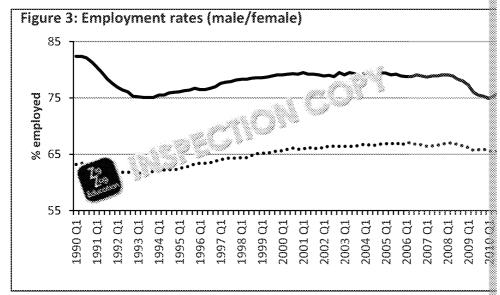






The UK is not out of the water just yet, however. There have been heavy joindustry, as competition from abroad proved too fierce to make the industry could try to prop up the industry via increased subsidies, but unless the unissues are tackled, it is feared that this would amount to signing a 'blank could amount to signing a 'b

There have also been concerns that the unemployment figures only appearemergence of 'zero-hours contracts' – but hard evidence on this is difficult



Another perplexing pattern has been observed since the crisis: even thoughtisen and unemployment figures have fallen, wage growth has been stagnwages to rise when unemployment is low).

One reason might be that inflation has been very low – if inflation were his demanding nominal wage increases. Another is that more people are have time, as their employers cannot afford to have them work longer. A more sluggish wage growth is that the proliferation of cheap capital goods has re(e.g. the introduction of self-service machines at McDonald's). Whether the remains to be seen.

Use the data

- Looking at Figure 1, explain why the Claimant Count measure of unemployn Labour Force Survey measure.
- 2. Suppose that in 2000 Q1 (quarter 1) the population of the UK was 60 million consisted of 55% of the total population, use Figure 20 stimate the number economy.
- 3. Look at Figure 3. What care out the about the difference between male Can you think of a second behind the differences shown in the graph?

Test you powledge...

- 1. Define the term 'economically active'.
- 2. Why is 'full employment' a macroeconomic policy objective?
- Figure 1 shows a rise in unemployment numbers during the financial crisis of type of unemployment that is likely to have taken effect during this time.

Extended-response question

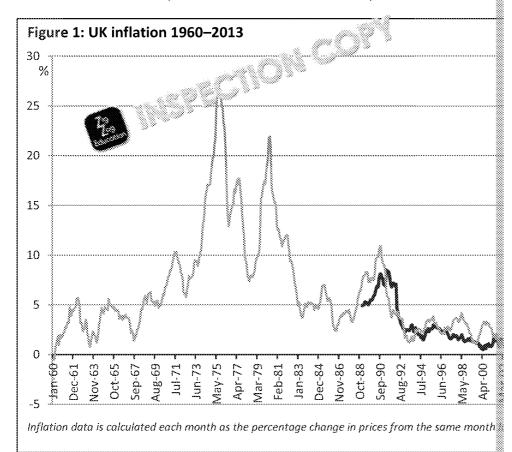
1. Discuss the consequences of unemployment for the economy and society.



UK inflation in the 1970s

This case study requires knowledge of the topic 'Infla

Inflation refers to the sustained increase in 'general' prices in an economy changes in the Consumer Price Index (CPI). Inflation figures in the UK tensections of newspapers nowadays. Inflation has been very modest over the close to the Bank of England target of 2%) although the near-zero rate in 20 However, in the 1970s (and to a lesser extent the 1980s) inflation was a server



High inflation is often associated with high economic growth – inflation as 'overheating'. In the 1970s, however, economists in the UK and US were for high inflation and low economic growth. This came to be known as 'stated as 'sta

One of the causes of this was a succession of oil rand's shocks' in the world economy –, i.e. une the calculater as in the price of oil. This caused a shock was a few cost of production) as well as an analysis which was a way from the UK to foreign oil producers the use of cars had become highly popular). These are examples of cost-push and demand-pull inflation, respectively.



It has also been observed that the government's policy response worsened were kept too low. Low interest rates lead to inflation if economic activity possible level. Unfortunately, the government had inaccurate data on the thought it had a greater capacity to grow than it actually did (they overest *gap*). In retrospect, it would have made more sense to increase interest rate



Following this episode, policymakers tended to become more 'hawkish' – emphasis on controlling inflation, possibly at the expense of economic groentered a period of relatively stable inflation in the UK, policymakers have concerned with promoting economic growth than worrying about high in

Use the data

- 1. Using Figure 1, what was the highest inflation rate experienced by the UK in
- (a) In percentage points, what was the approximate change in the rate of in July 1982?
 - (b) What term describes this kind of change?
- 3. Describe the trend in the inflation ration in គ្រាំខែ 1970s.

Test your know!

- 1. State so vny inflation increased in the 1970s.
- 2. Explain ufference between deflation and disinflation.
- 3. What is the difference between the Consumer Price Index (CPI) and the Ret
- 4. Distinguish between cost-push inflation and demand-pull inflation.

Extended-response question

1. Discuss the costs of inflation for an economy.





Canada's Economic Policie

This case study requires knowledge of the topic 'Fiscal'

One of the basic questions in macroeconomics is: how can a government by Justin Trudeau, the Canadian Prime Minister elected in 2015, the answer is spending, funded by a temporary budget deficit.

Quick facts	Canada	
Population:	35 mi‱n	
Area:	و المرابعة و المرابعة و المرابعة و	
GDP per cap: ் கருர்கா):	\$50,000	
Governm webt (% GDP), 2014:	86.5	

The rationale for infrastructure spending is that it increases aggregate deman short term (e.g. directly through an increase in government expenditure; indictoring through an increase in consumption from workers involved in the infrastruct project) and it also boosts aggregate supply in the long term (as these investments to be economy's productive capacity). Trudeau hopes to benefit from low interest rates to fund a \$60 billion (Canadian dollars) spending plan over 10 years channelled into areas including public transport, green projects and affordable housing ('social infrastructure'). Around 30–35% of this spending is expected return to the government via higher tax revenues, as the spending induces me

Despite a persistent budget deficit, all three main political parties (Liberal, Democratic) support higher infrastructure spending, perhaps due to evide depreciation have been mounting over time (leading to a so-called 'infras Nevertheless, there are concerns over Canada's economic future due to the such a low. Canada relies heavily on energy exports, as Figure 1 shows:

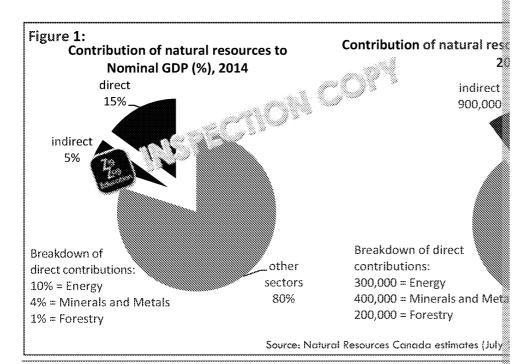
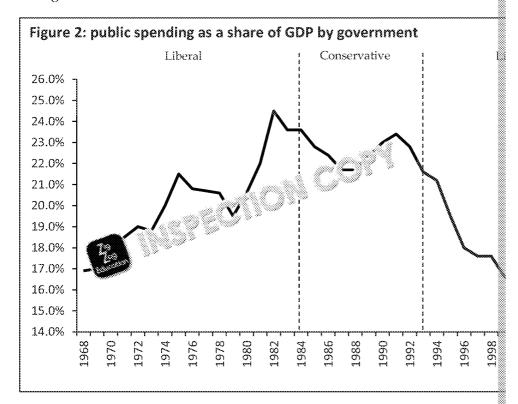




Figure 2 shows the pattern of government spending as a share of total GD where different governments (Liberal or Conservative) had control. As of changed back to Liberal.



It's interesting to note that the idea that left-of-centre governments (liberal spending and right-of-centre governments (conservative) decrease govern to hold. This same pattern can also be observed in the US. One explanation force government's hands: during the financial crisis of 2008, for example, Minister Stephen Harper was forced to increase spending, possibly against the graph after 2008 could also be explained by the effects of the recession graph shows public spending as a percentage of GDP, not total public spending

Use the data

Using the data in the article (quick facts, Figure 1, Figure 2):

- 1. Calculate the (nominal) size of Canada's government debt in \$s.
- 2. Calculate (in \$s) the contribution of energy to Canada's nominal GDP.
- 3. Calculate the percentage of Canadians that are in enable ment.
- 4. Estimate the proportion of GDP consisting of accomment spending in 2000.

Test your knowled

- 1. Look at the reason in Figure 2. What would you expect to happen to the infrast pran described in the passage goes ahead?
- 2. Based on the information in the passage, show the effect of an increase in in AD/AS diagram.
- 3. Is Trudeau's fiscal policy suggestion a form of current or capital government

Extended-response question

 Discuss the possible effects of a large infrastructure spending project on the and the long term.



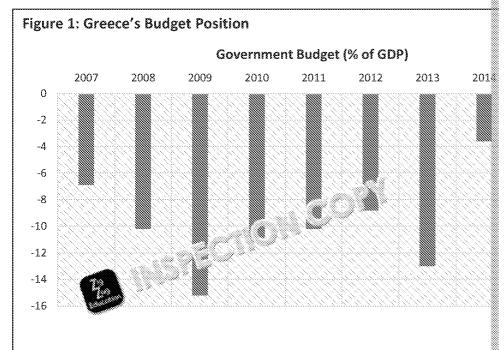
Greece's debt problem

This case study requires knowledge of the topic 'Fiscal'

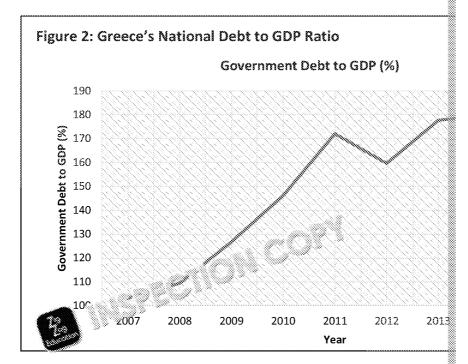
Greece's sovereign debt crisis came to the forefront of European political aftermath of 2008's *Great Recession* and financial crisis. Its cause is rooted

Members of the eurozone were required to sign the Maastricht Treaty, in budget deficits and sovereign debt levels in order to achieve a harmonious however, incentivised Greece, and other southern European economies, to accounting practices and the use of complex financial incruments in order underlying budget and sovereign debt problems and recover, adopting the finance private and government spending in the favourable terms than country's currency. Eurozone control to the finance of the finance private and government spending in the finance of credition and see a see a finance of creditions as as the economy boomed. Finally, at the heart fiscal irrest lility. For instance, Greek ministers increased government other welfare enefits markedly during this period. In fact, primary government by 87% while its tax receipts increased by only 31% from 2004 to 2009. The continuation of imbalances seen in Greece since the 1970s.

However, as the financial crisis began to take hold in 2008 it became clear fundamental problems in their economy. Greece revealed that it had been confidence in the economy fell instantly – for instance, ratings agencies do bonds to 'junk' status. Greece's consistent budget deficits now appeared to government bailed out its financial institutions, effectively transferring procapital fled from the Greek economy, reversing the trend of the mid 2000s increased markedly as a recession began. It became very clear that Greece national debt.







Greece's fundamental problem is that it is a member of the eurozone. The in which member states share a common currency and, therefore, lose indepolicy. The Greeks couldn't print euros in order to repay their creditors, repolicy to erode the *real* value of their national debt. Furthermore, the Greek their currency to make them more internationally competitive, reduce currency eGDP growth.

Instead, Greece had to use the limited fiscal policy tools it had available to try to influence the national debt. It increased taxation and cut government better its budget position – this is also referred to as 'austerity'. However, debt burden by decreasing GDP. Perversely, Greece also required further from the International Monetary Fund in order to mitigate its government commentators have suggested that, instead of borrowing more and more, defaulted on its loans, freeing itself from the shackles of long-term debt – Central Bank would never have allowed. Greece's national debt currently and its economic future looks very bleak indeed.

Use the data

- 1. In which year was Greece's budget position the most concerning: 2007, 201
- What was the approximate percentage increase in the national debt as percentage and 2015?
- 3. Research why government debt to GDP fell i 20.2.

Test your knowledge

- 1. 'It is suggested 's common series have had the opposite effect than instantion or poor how tax evaluation on poor how tax evaluation on poor how many businesses are jumping ship to other European economies.'

 Based on the information above, would you say that the Greek government
 - Based on the information above, would you say that the Greek government crisis is an example of a 'good tax'?
- 2. Distinguish between a government's budget deficit and the national debt.
- 3. Do you think that Greece's budget deficit is cyclical or structural? Why?

Extended-response question

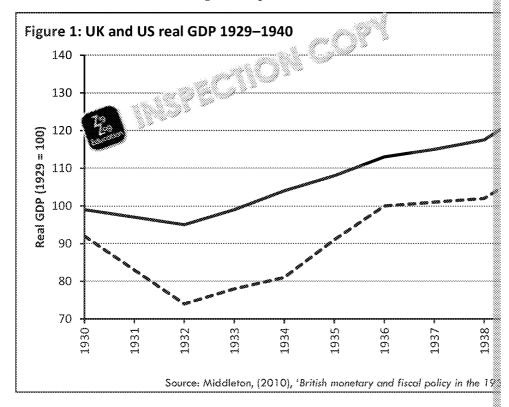
1. Discuss what policies governments can use to correct budget deficits.



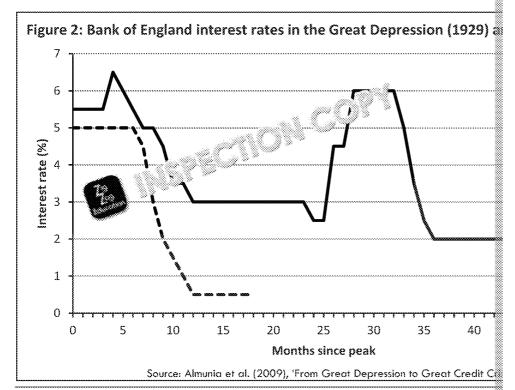
Monetary and fiscal policy in the Grea

This case study requires knowledge of the topics 'Fiscal Policy' and

The Financial Crisis of 2008 was a global economic disaster, but it is still do Depression of 1929. The Great Depression was particularly damaging for also had its fair share of economic misery. The episode provides a unique study the effects of demand-side policies in an economic downturn. Figure GDP in the UK and US during the Depression:



So what was the UK's monetary policy response to the Depression? Figur monetary policy: the interest rate.





It is interesting to note that interest rates were cut much more rapidly during the 2008 crisis than in the Great Depression (this is *expansionary* monetary policy – lowering interest rates should boost aggregate demand). In fact, the central bank increased interest rates in 1931. The reason for this was that the UK was trying to protect the value of its exchange rate, which at the time was tied to the Gold Standard. Decreasing interest rates in this environment would have meant that the pound would depreciate, so more pounds would have been needed to buy the same amount of gold (which would put the UK at a disadvantage with neighbours). When the UK finally abandone and Conducted Standard in late 1931, the interest rate of a safely be cut. This led to a depreciation of a proposed demand.



In terms of policy, the government sought to correct the budget deficutting unemployment benefits and raising taxes. These are *contractionary* slow down the economy. Nevertheless, the economy did recover quite su theory is that because these policies were accepted at the time as 'the right were able to restore confidence in the markets. Another possibility is that was enough to counteract the contractionary effects of fiscal policy. There be drawn between the UK's response here and the response to the Financial

However, economists should be cautious of drawing too many conclusions from the experience of the Great Depression. The complexity of the situative effect of any one policy on economic growth is almost impossible. Further structured quite differently back then. For example, the budget deficit in small relative to the budget deficit seen in 2007. Failing to learn from historials analogies could be just as bad.

Use the data

- 1. In which year did the US economy recover to its 1929 levels of GDP?
- 2. What is the (technical) definition of a recession? Was the UK in a recession
- 3. From Figure 2, how long did it take for the UK interest race to fall from 5% to Crisis?

Test your knowledge.,

- 1. Approximately how the last (in percentage terms) was the UK economy
- 2. (a) Si Repect of a fall in the interest rate on AD using a Keynesian AD
 - (b) Ex wo reasons why the fall in interest rates has this effect on AD.

Extended-response question

1. Evaluate the effectiveness of using demand-side policies to stimulate economic

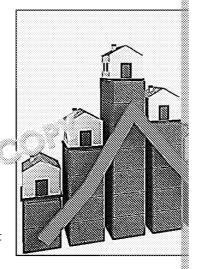


Ireland's Housing Market Bul

This case study requires knowledge of the topics 'Fiscal Policy' and

One of the casualties of the 2008 financial crisis was Ireland's economy. Ireland has subsequently been dubbed one of the 'PIIGS' – economies which proved particularly unstable after the crisis, although compared to the rest of the countries (Portugal, Italy, Spain, Greece), it seems to have been recovering very strongly as of 2015.

As well as 'irrational and period in financial markets, report in financial economic can be traced back to different types of macroeconomic mismanagement.



Irrational exuberance:

This is a term originating from Alan Greenspan, ex-Chairman of the Federal Reserve (the central bank of the USA). It is used to describe the risky behaviour in the financial sector in the run-up to the crash. Prior to the crash, the world econorich opportunities for Irish banks to low rates (particularly following Ir. There was very heavy investment because this sector had never crash confidence would prove to be mispof investing, that investors should range of assets, seems to have been

In terms of the fiscal policy, the government adopted a 'pro-cyclical' approincreased their spending in the boom period, as well as cutting taxes to attemproportion of these taxes were linked to the property sector). This left the vulnerable to a bursting of the property sector bubble, in spite of warnings OECD. Ultimately, this meant that the government had next to no breathing fiscal policy when the crisis hit.

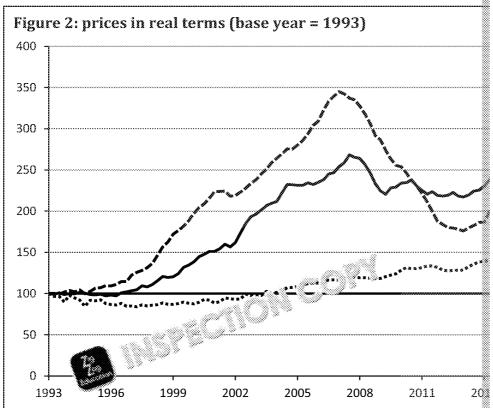
Furthermore, regulators of the banking industry seem to have failed to pick warning signs of an impending crash. This is particularly noteworthy since was not nearly as complex or opaque as some other wanced economies (extremely complicated financial products or 'legislatives' was flourishing) systems also seem to have failed the highest avery risky and unstable financial products or 'legislatives' was flourishing).





Figures 1 and 2 show two historical measures of the housing market in Irelis very evident in both.





Note: you can compare the performance of the housing markets in other countries using http://www.economist.com/blogs/dailychart/2011/11/global-house-prices

Fortunately, it seems that Ireland's economy is on its feet again. Hopefull experience will prevent such disastrous financial crises from occurring again.



Use the data

- Look at Figure 1. Suppose the long-term average house price in Ireland is all
 income. If average income is €30,000, what would be the (average) price of
 - (a) Q4 1980
 - (b) Q1 2007
- Look at Figure 2. In Q1 2007, compared to Ireland, were real house prices in (c) unable to be compared?
- 3. Looking at both graphs, can you think of a reason why China's house prices fallen so consistently?

Test your knowledge...

- 1. (a) Looking at Figure 2, describe the discouse prices in Ireland over the
 - (b) How many times greate and a line in Ireland in Q1 2007 than Q1 199
- 2. (a) What is many Ladget deficit'?
 - (b) E. who mer Ireland's fiscal policy measures described in the extract a surplus or a budget deficit in the short term.
- 3. Using a Laffer curve, describe the relationship between the tax rate and tax

Extended-response question

 One of the key features of Ireland's economic boom (and subsequent bust) was markets. Using an AD/AS diagram, discuss the effectiveness of deregulation as (Note: your answer does not need to include any knowledge of different type).





Supply-side policies — privatisation

This case study requires knowledge of the topic 'Supply-s

Supply-side policies, such as improving health and education, aim to increase the productive capacity of the economy. This allows for greater long-term economic growth. One of the larger (and more controversial) supply-side projects in the UK was the privatisation of nationalised industries in the 1980s and 90s.

The idea behind privatisation is the features competition in the market is beautiful efficiency, as private firms footy profit) run themselves more efficiency han the government can. In the UK, examples of industrianclude the set, telecoms, electricity and gas industries (and more recent)

Figure 1 charts labour productivity in the electricity sector before and after a UK-wide industry index:

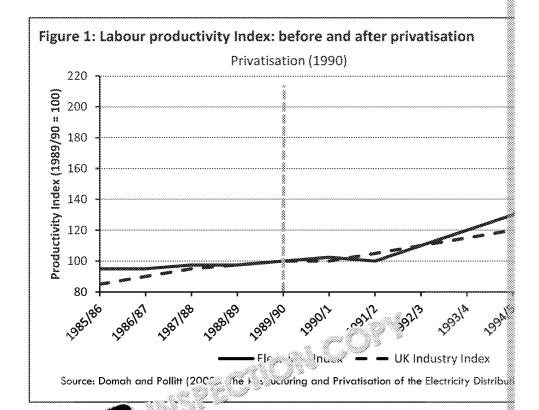


Figure 1 do me to indicate that privatisation had a positive effect on la some argue that this is due to reductions in employment following privation automatically increase labour productivity, ceteris paribus). Supporters of loss of employment in specific industries is offset by gains in employment.

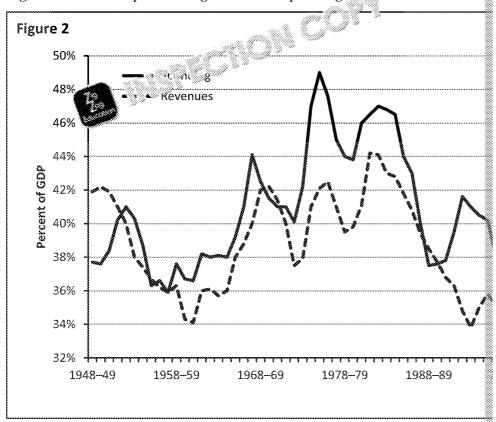
There was fierce opposition to privatisation at the time, causing deep divisithat privatisation has failed, because market power has become concentratime, undoing any initial efficiency gains from competition (critics argue the electricity sector in particular, where a small number of firms dominate the



Studying the effects of privatisation is difficult, because it's hard to tell who downturns in industries would have happened anyway if there had been privatisation was the cause of these changes! Most economists agree, thou privatisation are maximised when there is a genuine competition in the in

The next question on this issue will be how far the NHS will move toward to depend on whether the current system can continue to support an ageir and whether supporters of privatisation can persuade the public that it we profiting from people's ill health.

Figure 2 shows the pattern of government spending and ax revenues over



Use the data

- How much higher was the productivity of labour in the electricity sector in 1
 privatisation was first introduced?
- 2. Look at the pattern of government spending carring the 1980s in Figure 2. Is the
- 3. Look at Figure 2. What carryou in the boot the UK's tax rates during the 19

Test yor 💮 o vicuge...

- 1. From the large, identify one potential benefit and one potential cost of p
- 2. Show the effect of a successful supply-side policy on an AD/AS diagram.

Extended-response question

 'Governments should focus more on supply-side policies than demand-side supply-side policies can increase long-term economic growth'. Discuss this



Productivity - the Key to Long-run

This case study requires knowledge of the topic 'Supply-s

Most economists agree that in order to sustain economic growth in the long run, the supply-side of the economy must grow. For example, a government could try to increase the productive capacity of an economy by relaxing restrictions on the creation of new businesses, or investing in large infrastructure projects. Businesses have financial incentives to improve their own methods of world in perhaps by investing in capital or funding less continto new technology – this should also be to the aggregate supply of an element over time.

Considerate and the causes of economic growth. Figure 1 shows how GDP growth can

be decomposed into four categories for a range of OECD countries. The OECD countries of predometrous countries.

In Figure 1, labour input refers to the quantity of labour used in the economiand non-IT) also refers to the quantity used. Multifactor productivity referesources are being used.



Figure 1 looks quite different when repeated for the period 2001–2007 (prewhen the world economy was performing well, almost all countries show from all three sources (labour input, capital input and multifactor product)

Historically, industrialisation is seen as a major catalyst for productivity g Revolution is considered one of the primary reasons for the economic asce 1 in Case Study 3). This is why some models of economic development (so great value on having a strong, urban economic hub in an economy.

Increasing productivity nowadays may be achieved by improving human technology, privatising state-owned industries or beginning from economidea of the division of labour (originally from accompanies).

Some economists are concerned the Loverall productivity growth has been despite strong growth as the manufacturing sector (in the UK, it's estimate the productivity of transport equipment such as cars and planes increased by productivity of important for long-run growth, it should certainly be made to be a coming years.

Use the data

- 1. Using the data in Figure 1:
 - (a) Which country gained most from increased capital input?
 - (b) Which country suffered the worst loss in multifactor productivity?
 - (c) Which of the three factors has contributed most to GDP growth on ave
 - (d) By roughly how much did Spain's GDP decrease as a result of decrease
 - (e) What was Ireland's annual GDP growth rate, according to these figures
- 2. Can you think of a link between Spain's loss of GDP due to a decrease in lab macroeconomic objectives?

Test your knowledge...

- 1. Show the likely effect of a large decrease in education spending on a classic.
- 2. Aside from productivity and education, state two factors that influence long

Extended-response question

Discuss the costs and benefits of a government policy to increase productive investing in better education.







Policy conflicts — inflation and uner

This case study requires knowledge of the topic 'Policy Conflicts'. Note that a f Phillips curve is not required until A2.

Economies rarely seem to perform exactly the way we want them to. If a government tries to correct one problem, they often end up causing another in the process – a 'trade-off'. One of the classic economic trade-offs that has been studied extensively is the conflict between inflation and unemployment. William Phillips, a New-Zealand-born economist, proposed the shear un relationship between inflation and the Phillips curve.

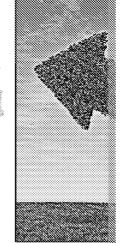


Figure 1 p. L. inflation and unemployment from 1971–2000 (each dot represents a year):

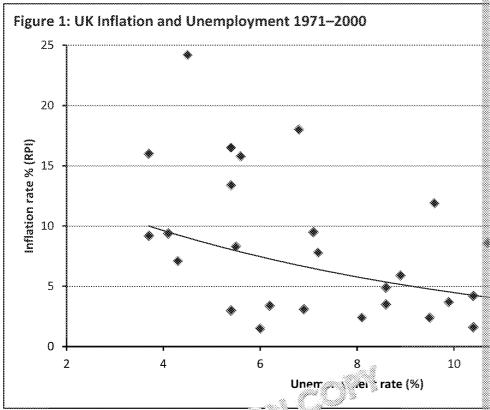
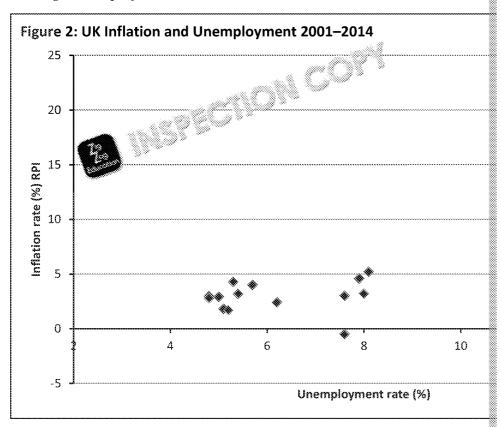


Figure 1 seems to show a specific function of the trade-off, although as with it is not nearly as a specific entered Phillips Curve. Inflation is measured doesn't stiple to that far. Data is available for after 2000, but the relation (particular) when to the disruption caused by the financial crisis).

How do we explain this trend line? Take the case of low unemployment a scenario almost everyone in the labour force is employed, so firms have to workers. This pushes up inflation (cost-push). Furthermore, when wages increase, pushing up demand for goods and services. This pushes up the The opposite happens when unemployment is high and inflation is low.



However, it has been argued (and observed in the data) that the Phillips C down over time. In the UK, after the financial crisis we have seen low une (see Figure 2). This could be explained by the success of supply-side police that expand the productive capacity of the economy (limiting inflation). It targeting policy (which only came into force in the 1990s) may be another of the relationship. This is good news for governments – as long as the tree inflation continues, and we don't return to the 'stagflation' seen in the UK and high unemployment).



Use the data

- Look at the trend line in Figure 1. Suppose unemployment was at 9%. If un percentage points, what would be the expected change in inflation?
- 2. Which of these best describes the relationship between inflation and unempto (a) positive relationship, (b) negative relationship or (c) relationship?

Test your knowledge...

- 1. Explain what is meant by if atio argeting.
- 2. Explain hit for a loyment may lead to low inflation.
- 3. Explain ther possible policy conflicts.

Extended-response question

'Governments should prioritise low unemployment over low inflation.'
Discuss this statement.

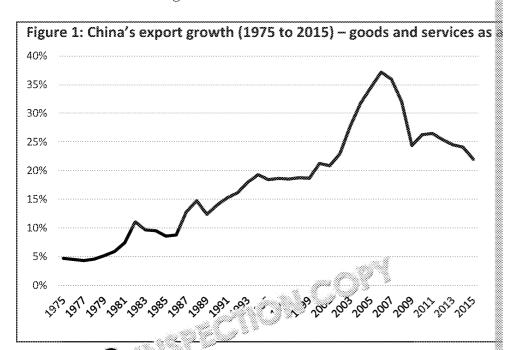


China and Exchange Rate Mana

This case study requires knowledge of the topics 'International Trade

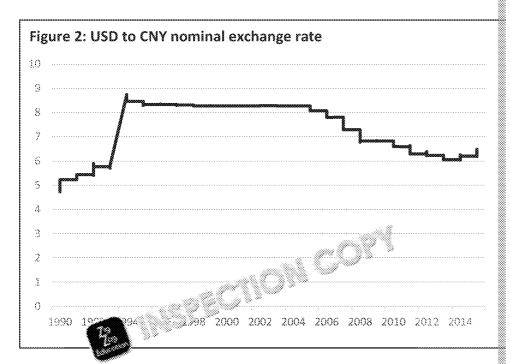
China's spectacular rise to becoming the world's second largest economic notable examples of the impact of international trade on achieving industrigrowth. When Deng Xiaoping, the then leader of the People's Republic of economy in 1978, few people could have predicted the rapid shift from an industrial powerhouse of the world.

China's success is rooted primarily in its *comparative vistage* in manuface means that one country can produce a certain product relatively more efficient a smaller opportunity costation in the scale of the cost of production in the entire for specifical and production that uses this factor of production interparticularly ectronics, occurs in China not only because labour is abune because it has gained expertise through specialisation. The Apple iPad's visually shift production economies. Yet, industrial clusters in China can offer over three decades of manufacturing, thorough knowledge of the production process, sophistical logistics networks, design and engineering expertise and the ability to upease—this gives China a comparative advantage even if labour is a falling industrial manufacturing.



Yet, China vtiv in exports since 1975 hasn't occurred because of a commanufacture alone. The Chinese government first pegged the yuan (Chidollar in 1995, and then to a basket of currencies – that is, it has been operaregime. It can be seen in Figure 2 that the Chinese yuan was almost flat be Chinese government allowed its currency to float within limits.





Exchange rates are the price of currency in terms of another, and, therefore relative prices of goods and services across international borders. It is said be competitive on international markets because it artificially kept its curre yuan is now floating on international foreign exchange markets, the Chine allowed it to make the major adjustments in value that the international compreciated by about 20% between 2005 and 2008, but critics speculate that further 20% before it reaches the free-market, floating value. International Chinese government of currency manipulation that unfairly benefits its printernational markets. Western consumers, however, have likely benefited cheap Chinese exports.

For the Chinese, though, currency stabilisation is essential for long-term deproduction is export-orientated. China's domestic markets might not yet the output of Chinese producers, and so targeting supply at foreign econocurrency to compete on the international stage might just be the best strate aggregate demand. Moreover, outward-orientated growth has allowed Compartially) exposing itself to international competition – its comparative adproduction has allowed it to do so. It's clear from Figure 1 that operating has boosted exports, and, therefore, GDP growth significantly.

However, fixed exchange rate regimes aren't conserved Crucially, although helped exporters, imported products the distribution of the include natural resources and the constraint of the inflation in the Chinese economy. Another central bar and an include the exchange rate by buying and selling supply and and only manipulate the exchange rate by buying and selling supply and and only independence over its own monetary policy.



Use the data

- 1. China's GDP in 2006 was \$2,752.68 billion. What was the value of its export
- 2. Why do you think that Chinese exports fell from 2006 to 2008?
- 3. What is the percentage change in the USD/CNY exchange rate between 200 currency movement is this?

Test your knowledge...

- 1. Distinguish between absolute and comparative advantage.
- 2. (a) Define the terms of trade.
 - (b) Imagine that the average price of China's and increased by 2% while goods imported to China decrease in the winat would be the change.
- 3. What is the difference between coming exchange rates and fixed exchange
- 4. Explain ffc 2 2 arrency depreciation with reference to the J-curve e

Extende esponse question

 Chinese currency manipulation has clear costs and benefits to the domestic effects of this fixed exchange rate regime on the US economy.





Should we be worried about the UK's curre

This case study requires knowledge of the topic 'Balance of You should be familiar with the current account component of the balance of pa to have some understanding of how exchange rates

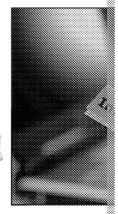
In the UK there has been much talk about the budget deficit – but less about the budget deficit (which was £142 billion in 2010) seems to be falling steasibillion in 2014). However, the story is quite different for the current accouperiod it jumped from £41 billion to around £92 billion.

Figure 1: UK Current Account Balances as a percomage of GDP

Quarter	Tota!	Trade	Primary
Q3 2012	(1	-1.7	-0
Q4 2013	-4.2	-2.5	-0
Q1	-4.2	-1.7	-0.
Q2 2	-3.2	-1.6	0.
Q3 2013	-4.6	-1.6	-1.
Q4 2013	-6	-2.9	-1.
Q1 2014	-4.5	-2.2	-1
Q2 2014	-4.2	-1.3	-1
Q3 2014	-5.4	-2	-2
Q4 2014	-6.3	-2.1	-2.
Q1 2015	-5.2	-2.3	-1
Q2 2015	-3.6	-0.7	-1.

The last columns of Figure 1 show the three components of the current accominus imports), net investment income (or 'primary income') and net interest 'secondary income'). The sum of these gives the total current account balance.

Current account deficits are not inherently 'bad' in the same way that running current account surpluses is not inherently 'good'. Developing countries may wish to run a current account deficit to import capital goods, with a view to improving their productivity in the future. Countries that rely too heavily on their exports may run into trouble if the price of their commodity functional unexpectedly (as with oil-producing countries and 2015/16).



Running a current and a wicit is nothing new for the UK: there hasn't but some picture are concerned about the size of the deficit: the figure Q4 2014 is a gest ever deficit in peacetime.

One of the worries about current account deficits is that they have to be further borrowing. If this persists over time, interest payments become a burdent also be funded by foreign investment in the domestic country. A recent extinvestment in building nuclear power stations in the UK. Some fear that to foreign countries could compromise an economy's long-run growth potent



Others argue that if the deficit grows too large, the exchange rate will depend balance to improve. They also argue that investors have a lot of confidence many other measures it is performing strongly. Therefore, investors will not time soon. Furthermore, now that the UK is a net importer of oil, the low deficit from worsening (so long as prices stay low).

It remains to be seen whether the UK government or the Bank of England reduce the current account deficit, or whether market forces could solve the

Use the data

- 1. Look at the data in Figure 1.
 - (a) Which of the three components of the carrent account appears to be s
 - (b) Which of the three components to have worsened over time (i.e.
- 2. (a) Suppose UK GDP as £1,600 billion (or £1.6 trillion). Using the size where size where size with the size as £1,600 billion (or £1.6 trillion). Using the size with the size as £1,600 billion (or £1.6 trillion).
 - (b) If 2014 was £1,750 billion (or £1.75 trillion), calculate the size Q3 arter 3) 2014.

Test your knowledge...

- 1. What is the balance of payments?
- 2. Based on the article:
 - (a) Explain the effect on the current account balance if the value of UK invenioreased.
 - (b) Explain the effect on the UK's current account balance of an increase in

Extended-response question

 Assess the effectiveness of investing in one of the UK's export sectors as a water account deficit.





When will the UK raise interest

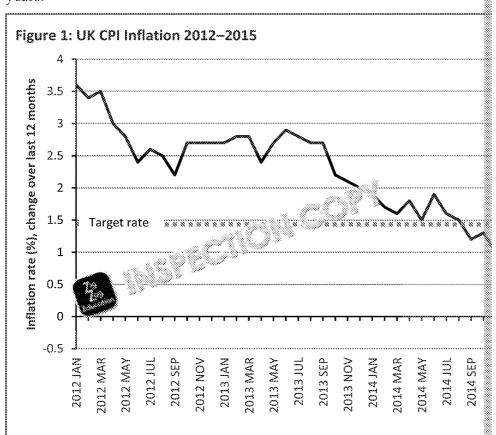
This case study covers a range of Component 2 top

Interest rates are one of the key tools central banks use to guide the economy in the right direction. The Bank of England's Monetary Policy Committee meets every month to decide whether or not to change interest rates. In the UK, interest rates have been at a historic low of 0.5% since March 2009. Financial commentators have been continually pushing back their predictions of when rates will finally go up again.

In Japan, interest rates fell to -0.1% Trainary 2016 to try to stimulate growth, but the same more optimistic: the Federal Reserve including the last sinterest rate in December 2015. The UK seems are recovered from the recession, so why haven't interest rates gone up here as well? Mark Carney – the Canadian-born governor of the Bank of England – is concerned about an array of economic risks facing the country in 2016.

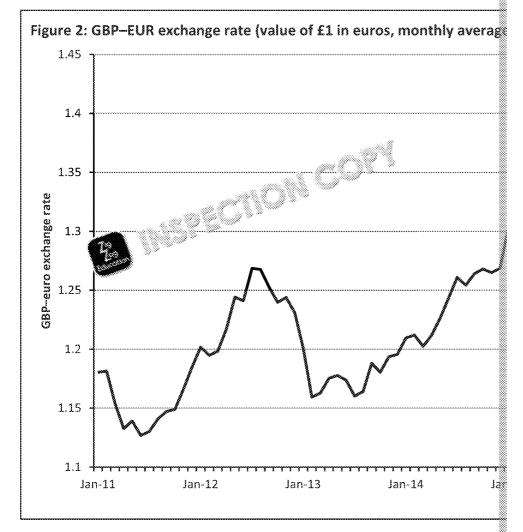
The main worry is that a combination of low oil prices and a fall in China's that the global economy will have a weak year. The UK is highly integrate (more so than the US), so it will certainly be affected by an economic slow.

Another factor is the inflation rate. Traditionally, monetary policy is designable, positive rate. As Figure 1 shows, the UK has seen unusually low in years.





It is feared that if interest rates are hiked too soon, the result could be deflated to this is the UK exchange rate (see Figure 2). The pound was related to this been falling because of uncertainty about the UK's referendum on Electrical Countries of the Count



There is another difference between the UK and US economies that may expanses: fiscal policy. In the UK, the government is pursuing contractionary budget deficit. The US, in contrast, has relatively expansionary fiscal police.

Use the data

- Which of the following terms best describes the trendiging figure 1: (a) disinflation?
- 2. Explain why deflation might be during an economy.
- 3. Suppose the GBP—FIRE and the series 1.15 (as in early 2013). In this case, a pounds

Test you knowledge...

- 1. Give two reasons why the UK inflation rate might have been falling (Figure 1)
- 2. (a) Explain how an increase in the interest rate would be expected to affect
 - (b) Explain the main consequences of the change in the exchange rate for

Extended-response question

1. Assess the effectiveness of lowering interest rates to stimulate economic gr



Answers

Mark scheme: extended-response questions

10	593 F	ırks
23	2552	25 55.3

		Knowledge (2), application (2) and analysis (2)
	0	No relevant answer given.
Level 1	1–2	A few concepts may be identified correctly, but inconsistently, and wit behind the causes and effects.
Level 2	3-4	Some knowledge of economic concepts is shown, partially linked to the reasoning skills, but may focus too much on one side of an argument.
Level 3	5–6	Knowledge of the economic concepts is very accurate. Links to the quexamples. Analysis is well reasoned and logically appropriate for the
		(4) (4)
	0	No evaluation.
Level 1	1–2	Limited attems. Eval asion – may be only loosely related to the quest
Level 2	2.	Accu ി , ്രിഡ്ലെ evaluative comments are made, supporting a roun re ും റെ the question.

15 marks	5 marks				
	Knowledge (3), application (3) and analysis (3)				
	0	No relevant answer given.			
Level 1	13	A few concepts may be identified correctly, but inconsistently, and with behind the causes and effects.			
Level 2	46	Some knowledge of economic concepts is shown, partially linked to the reasoning skills, but may focus too much on one side of an argument.			
Level 3	79	Knowledge of the economic concepts is very accurate. Links to the queexamples. Analysis is well reasoned and logical, and appropriate for the			
		Evaluation (6)			
	0	No evaluation.			
Level 1	12	Limited attempt at evaluation – may be only loosely related to the quest			
Level 2	34	Clear evidence of evaluative comments, though they may be unfairly wargument. Reasoning / supporting evidence is provided but may be in			
Level 3	56	Accurate, balanced evaluative comments are made, supporting a roun directly to the question.			

20 marks

		Knowledge (4), application (4) and analysis (6)	
	0	No relevant answer given.	
Level 1	1–3	A few concepts may be identified correctly, but inconsistently, and withought behind the causes and effects.	
Level 2	4–6	Some knowledge of economic concent and www, partially linked to to basic reasoning skills.	
Level 3	7–10	Good knowledge of அதிர் இட்சconomic concepts is displayed, link evidence to அரைப் சுள்ளா arguments. Analysis is well developed sid ாத்திராக்கள்	
Level 4	ı	Kn Medge of the economic concepts is very accurate. Links to the quexamples. Analysis is well reasoned and logical, and appropriate for	
Evaluation (6)			
	0	No evaluation.	
Level 1	1-2	Limited attempt at evaluation – may be only loosely related to the que	
Level 2	3-4	Clear evidence of evaluative comments, though they may be unfairly argument. Reasoning / supporting evidence is provided but may be	
Level 3	56	Accurate, balanced evaluative comments are made, supporting a rou directly to the question.	



Case Study 1: The UK's slump in consumption during the recession

Use the data

- 1. This data is in real terms you can tell because 2008 is used as the base year (this relative to 2008).
- 2. The index in 2009 Q3 is at about 93 this indicates a fall of 7% from 2008 Q3. 6-8%
- 3. This is a bit of a trick question you can't tell from the graph which type of spending actual amounts of spending involved only the percentage changes (Note: questions)

Test your knowledge...

- 1. Aggregate demand (AD) is the total demand for final output produced within an ec
- 2. AD = C + I + G + (X M). Answers in symbols or words are both acceptable.
- 3. Household spending fell from a peak of around £225 hillion in 2009 (2, a 2) or about £14 billion. Answers between £13 and 22 on are acceptable.

Price Level (£)

4. Diagram should show a shift which shift in aggregate demand: this is because a fall in Manager has a tax on consumer goods) encourages consumer the sham component of AD). Up to 2 marks for correct labelling 2 marks for showing the shift correctly.

Extended-response question

1. A good answer must explain how both interest rates and consumer confidence can affect aggregate demand.

Interest rates: A fall in the interest rate makes saving less attractive and borrowing cheaper. This should boost consumer spending. You could also explousinesses will seek to invest elsewhere, rather than in interest-bearing assets), and (lower interest rates depreciate the exchange rate, since it becomes less attractive). Therefore, exports increase and imports fall — boosting aggregate demand).

Consumer confidence: If consumers are confident about the outlook for the economealthy levels of spending. The same goes for business confidence and investment Both are clearly important elements of a strategy to boost consumption. However, points that can be made:

- Interest rates (usually) can't go below zero. Since the current rate of 0.5% is so rates can no longer be of use.
- Consumers may want to save no matter how low interest rates are if they belie
- Changes in interest rates have a delayed effect on aggregate demand (time la
- Consumer/market confidence cannot be directly controlled by the government perceptions of how well the economy is doing, and how competent the govern

A good conclusion should note that both of these factors are important in determining part of a wider approach to tackling the problem (i.e. they won't be nearly as effectionake an argument that one factor is more important than another, as long as it is well as the second control of t

Case Study 2: The economics of immigration

Use the data

- 1. Around 1983 (emigration exceeded in right in one or two years after that, but the
- 2. (a) Around 200,000 (ac 5,000–225,000)
 - (b) Arous 0. (s 5,000–25,000)
- 3. The lab participation rate would increase.
- 4. The labour force participation rate would worsen, as the 'bulge' from the migration force (retire).

Test your knowledge...

- Immigration was roughly 590,000 and emigration was roughly 340,000, so net migranswer between 225,000 and 275,000 is acceptable for 1 mark.
- Between 1964 and the mid 1980s, net migration was usually small and negative. Do
 to climb at a faster rate than emigration, and net migration became positive and largerized of negative net migration, 1 mark for identifying period of positive net migration.



- 3. Short-run aggregate supply (SRAS) refers to the situation in which there is at least of Producers respond to changes in prices (brought about by movements in AD) by variable to them. SRAS is shifted by changes in costs of production (1). Long-run at refers to the productive potential of an economy. In the long run, all factors of production determined by *all* factors of production. LRAS shifts when the productive capacity
- 4. Possible answers include:
 - Technological advance
 - Improvements in productivity
 - Improvements in education and skills (human capital)
 - Regulatory changes / competition policy changes

Other answers are possible so long as they are well justified: 1 mark for stating each can increase LRAS.

Extended-response question

- There are several points in the artist of an mention, both for and against the include:
 - Increasing size the partial purforce (evaluation point: more effective in countries making provide in countries provide provide in countries and provide in countries are provided in provided in countries.
 - Br der range of skills (e.g. technical skills, language skills) boost to hull deposition of migrants)
 - Migrants may be harder workers or contribute disproportionately towards indentities workers (e.g. NHS. Evaluation point here is that migration is more benefits shortages either generally, or in specific sectors.)
 - Potential to foster better trade relations between sending/host countries

Points against could include:

- Overcrowding / undesirable population growth (evaluation point: particularly shortage of housing supply such as the UK)
- Diminish labour market opportunities for native workers through lower wages
 points: only applies when there is a shortage of jobs to begin with, could be my
 brought by migrants)
- 'Brain drain' effect from sending countries (when countries lose their best and remittance payments back to families)

Although they are not direct economic issues, you could also point out potential so arise from migration. This could be mitigated by government policies to integrate reto draw an AD/AS diagram to show the increase in AS from migration (and a possible).

You can be either for or against the policy in your conclusion, but for Level 3 evaluation contexts in which the policy could be successful/unsuccessful.

Case Study 3: Economic growth in the UK – back to business as usual?

Use the data

- 1. 2.5% (accept 2-4%)
- 2. Nominal GDP figures do not account for the effect of inflation, so GDP figures appear positive in the UK). Therefore, the GDP growth figures we like the higher (also the revisually, the graph would appear to have shifted
- 3. USA's GDP growth is given as 2.4% in the transformation of \$17 trillion $(17 \times 102.4) / 100 = 17.40 from a starting point of \$17 trillion.

Test your kn

- 1. GDP is it value of final output (or goods and services) produced in an econom period (1). Real' GDP means the effect of inflation has been removed. It is adjusted dividing it by the GDP deflator (essentially an inflation index) (1). 'Nominal' GDP is produced. If real GDP wasn't adjusted to account for price changes, doubling the produced within the economy would double GDP, despite there being no actual proclearly misleading (1).
- 2. Measuring GDP is important because it is a simple indicator of the economic health of value of GDP, the better off an economy is. This is because GDP can be understood as or national income, or national output. Any of these three things being higher should condition (1). It also allows us to track the rate of *economic growth* over time, as well



- Possible answers include: market confidence, low borrowing costs, low oil price, review 1 mark for each identified factor. You cannot have the expansionary monetary polishatement (since this was after 2014).
- Costs of economic growth: inflationary pressure, recession (if economic growth is undegradation, inequality, current account deficit.
 Benefits of economic growth: improvements in standard of living, increases in incomgovernment borrowing, investment, improvements in public services, social cohesions.
 1 mark for each cost and benefit. 1 mark for each explanation. Note, list of costs and

- 1. GDP measures the total value of output in an economy. When you adjust for popul inflation (real GDP) this can give a good impression of the *size* of an economy. How compare the *success* of different economies, many impression are omitted:
 - Living standards. It can be more inform tive to the standards account for different living standards. If ferent countries (PPP should be clear Accounting for living standards to narrow the perceived gap between rich are usually related to the property of the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are usually related to the perceived gap between rich are related to the rich are related to the
 - In parcapita GDP figures give no indication of the distribution of experimental economic growth, but this would not benefit the general popular to an elite.
 - Negative externalities. GDP only measures the total value of output, it doesn 'bad' output. Economic growth may come hand in hand with environmental doesn of land for commercial purposes.
 - Happiness. Having a higher average standard of living does not guarantee that
 end up working excessively long hours and spend less time with their families.
 wealth increases happiness up to a point but increasing wealth beyond that
 This is notoriously difficult to measure, however.

In your answer you could also make reference to 'composite' indicators such as the of factors before comparing countries' performance (with respect to economic develoat that there are problems measuring GDP itself—e.g., GDP not account for the size of illicit economic activity) — which varies greatly between countries; GDP only measure but not changes in *quality* which is arguably more important. A good answer should these points in depth.

Case Study 4: Mozambique - an African lion?

Use the data

- Clearly Mozambique's GDP growth rates have been much higher than the UK's sinc without having to look at a graph for the UK). Also, Mozambique seems to have be financial crisis of 2008.
- 2. (a) GNI is the total income of all a country's citizens across the world (whereas GI) within a country's borders, regardless of nationality).
 - (b) Output/income per person, rather than in total.
 - (c) PPP (purchasing power parity) means that the figures are adjusted for the cost country.
- Since the expected years of schooling (for calline action) is significantly good schooling (calculated for those action) and indicates that the education dimensions

Test your knowledge.

- Other in a lors could include: poverty rate, literacy rate, access to clean we child me and environmental sustainability (although these are often linked to HDI). Happiness measured through indicators such as Gross National Happiness development although it's important to be aware of the Easterlin paradox that su incomes don't necessarily correlate with higher levels of happiness!
- Possible answers include: abundance of natural resources / international trade, end economic policies, foreign investment.



Your answer should note that having abundant natural resources can help boost economical development, but not in all cases (on this point you should mention the resource commay also note that economic growth does not guarantee economic development. If factors that can improve development aside from having natural resources,, e.g. . expood financial system, health, demographics, investment, savings and debt. An important specialisation in the primary sector might keep a country such as Mozambique to specialisation in the tertiary sector.

It is expected that you will conclude that natural resources can help boost developmenaged, but that it is only one of many potential factors that can contribute to economic the contribute to economic that it is only one of many potential factors that can contribute to economic that it is only one of many potential factors that can contribute to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is only one of many potential factors that can be sufficient to economic that it is not that it is only one of many potential factors that can be sufficient to economic that it is not tha

Case Study 5: Youth unemployment in Italy

Use the data

- 1. The 55–64 age group data shows a slight rise in the sign of opinion around 6%). The 15–24 age group also shows in a gease, but a far more dramatic slow of around 20% in 2007 to 40% (a) 11.
- 2. (a) An increase of ar an analysis (accept 10,000 either way).
 - (b) After ma the in 1994, unemployment fell steadily until 2002. The next per points, before falling to a low of 20% in 2007. The overall trend was
- 3. There are any number of possible solutions you could come up with, but virtually all drawback. Example policies and drawbacks you might come up with could include:
 - Investing in education and training long-term solution only (has an opportunity)
 well (the article states that more young people are going to university, but the
 - Providing incentives/legislation to encourage employers to employ young peop politically).
 - Investing in existing/new industries to expand employment opportunities (only
 guaranteed in these sectors, very long-term solution).
 - Taxing older workers, who benefit from employment protection, to fund schen (politically unpopular).
 - Reducing/removing employment protection regulation a crucial barrier to you
 excessive employment protection regulations that make it difficult for firms to
 recession. Firms, therefore, choose not to hire less-experienced youth workers
 expenses related to this situation. Removing such barriers could make hiring you
 effective. This policy potentially has adverse effects on worker's' perceptions.

Test your knowledge

- Unemployment rate = number of unemployed people / total labour force. (1)
 In this case, the total labour force has decreased, so the unemployment rate increased.
- The text already mentioned structural unemployment, so possible correct answers seasonal unemployment, demand deficiency / cyclical unemployment, unemployment involuntary/voluntary unemployment.
 - 1 mark for each identified cause.

Extended-response question

Social consequences include increased and direalth problems, lower living standards family problems, a loss or's inspect the long-term effects), or any similar justification of the problems of the problems

For evaluation points, it could be mentioned that some types of unemployment are the long term, such as frictional unemployment (which is inherently temporary and unemployment (again, this is temporary) and possibly cyclical unemployment (so lost too deep). It may be helpful to note that in the case of Italy, where unemployment unemployment) is so high, these types of unemployment cannot be as easily ignores



Case Study 6: UK unemployment - successes and challenges

Use the data

- The main explanation is that the claimant count ignores those who are unemployed benefit for various reasons (e.g. too much hassle to claim, don't like the stigma of c
- 2. 55% of 60 million is 33 million (size of the labour force). Figure 2 tell us that the may was around 6%, so that means that 1.98 million men were unemployed (6% of 33 million men were unemployed).
- 3. The graph shows that male employment rates are higher than female employment narrowing over time (the gap in 1990 was roughly 20 percentage points, in 2015 the percentage points). The gap could be explained, for example, by the fact that worn care for children. The narrowing of the gap seems to be down to greater employmentage remained fairly steady), perhaps due to a shift in societal attitudes.

Test your knowledge...

- 1. Economically active people are those that are either or any g (employed) (1) or look number of economically active people is the same active size of the labour force. You people count as economically active where the rull two marks.
- 2. 'Full' employment is a solution macroeconomic policy objective for a number of unemployment his solution which was a solution in the economy is not operating at its productive capacity labour less. Second, there are long-term effects of unemployment that a government higher and tax receipts lower when there is unemployment. Finally, unemployment crime, poor health, social dislocation. It is for these reasons that governments aim
- Possible answers include: structural unemployment, demand deficiency / cyclical unemployment, 1 mark for explaining how it works.

Extended-response question

Your answer should discuss the significance of several consequences of unemployned and economic costs.

Possible economic consequences include:

- Fall in tax revenue and/or increase in unemployment benefit spending (which budget deficit). This has knock-on effects on the economy: it could lead to a regovernment spending in other areas.
- Loss of economic growth (lower output/GDP due to less work, plus fall in cons
- Costs to the unemployed themselves: economic costs (lower living standards)
 costs, loss of skills). Could mention that the longer someone is out of work, the
 There are fears in countries such as Spain and Italy of a 'lost generation', since

Social costs include crime and various health problems.

Case Study 7: UK inflation in the 1970s

Use the data

- 1. Around 27% (in 1975). Accept 26-28%.
- 2. (a) Inflation fell from around 22% to around 5%, a fall of 17 percentage points (an percentage points is acceptable).
- 3. Inflation in 1970 was around 5%, but increased readily as a peak in the middle of the around 7–8% before climbing again to around 22%.

Test your knowledge...

- 1. The passage ot see as a noil prices and low interest rates (also known as low of these 1 reark.
- 2. Deflation en the inflation rate is negative, i.e. when prices are falling (1). Disininflation (e.g. from 5% one year to 3% the next) (1).
- 3. Consumer Price Index (CPI) is the UK's main measure of inflation. It is based on a base products, which are weighted according to consumption patterns. Retail Price Index includes a different bundle of goods and a partially different demographic (1). For it consumption habits, as well as higher-income households, because consumption by the 'average' household. RPI also includes many items related to housing expendit council tax, etc.) that CPI excludes (1).
- 4 'Cost-push inflation' is inflation that occurs through increasing prices of inputs which terms of higher prices for final output (1). 'Demand-push inflation' occurs when again supply causing the economy's general price level to rise (1).



- Your answer should explain clearly several costs of inflation, before assessing their whether inflation can be beneficial in some ways). Possible costs of a high rate of in
 - Uncertainty. Consumers might postpone economic activity, given how rapidly
 Businesses will be unclear about their costs of production, and may have difficult
 (menu costs).
 - Shoe-leather costs (cost to consumers of having to compare prices more ofte)
 - Reduces value of savings / fixed incomes. Inflation creates winners and loser suffer a fall in their wealth, as will those whose incomes do not automatically
 - Possible wage-price spiral (if inflation is high, it leads to workers negotiating ways prices, higher inflation, and so on)
 - Fall in international competitiveness (inflation is a sign of economic weakness investment, and the price of exports appears inflated)

An evaluative point you could make is that the costs d per to bow high the rate of inflation and more prolonged periods of inflation and damaging).

As another evaluative point you could explain at a low and stable rate of inflation is consince it acts as a gentle english see a since for people to spend money (which boosts economic

Furthermore are valuation point is that whilst there are costs of inflation, there are prices might onsumption decisions because consumers feel that they might be absenture, falling prices also increase the *real* value of debt – transferring wealth from debtoreal interest rates discouraging borrowing; if wages are 'sticky,' real-wage unemployment cannot decrease wages to match falling prices.

Case Study 8: Canada's economic policies

Data response question

- GDP per capita = \$50,000 and population = 35 million, so GDP = \$1.75 trillion. Gove money terms:
 - Government debt = 1.75 * 0.865 = **\$1.5 trillion**
- Figure 2 states that energy consists of 10% of GDP. GDP is \$1.75 trillion, so energy economy.
- 3. Canada's population is 35 million, and Figure 2 states that 16 + 1.8 = 17.8 million per So the percentage of Canadians in employment = (17.8 / 35) * 100 = 50.857%
- 4. From Figure 2: roughly 16% (accept 15-17%)

Test your knowledge

- We would expect the % of government spending as a share of GDP to increase, so the graph should show an upward trend over the next few years. 1 mark for identifying increase / upward trend.
- You can either show an increase of both AD and AS on one diagram, or show them on separate diagrams. 2 marks for labelling, 1 mark for shift in AD, 1 mark for shift in AS. Note: the eventual effect on the price level will depend on how you draw the curves: in this graph no change in the price level is shown but an increase/decrease is also correct.
- 3. Trudeau's suggested fiscal policy is a silve what in infrastructure. It is, therefore, a 'capital' expendicule. It all ters from a 'current' government expenditure because the analyse sement concerned with producing a future benefit current.

Extended-res question

 You could structure your answer either by talking about short-term positives/negat talking about all the positives over both the short- and long-term and then moving former approach:

Short-term benefits:

Boost to employment leading to boost in economic growth. Potential for mul

Short-term costs

- Possible inflation if AD shifts significantly (since AS takes a while to catch up).
- Increase in budget deficit (if the government isn't financing this expenditure will decrease in other government expenditure).



- Could reduce market confidence, increasing interest rates. Or it could have not faith in the long-term economic benefits of the plan.
- Expenditure as a fiscal policy might have the adverse consequence of 'crowding rates increase as the result of expansionary fiscal policy and this might disince.
- · Opportunity cost of government expenditure.

Long-term benefits:

- Greater efficiency/productivity (evaluation: this is assuming that the infrastruction not go over budget)
- Higher potential economic growth rate

Long-term costs:

- Government expenditure might outweigh government tax receipts and so this
 problems associated with national debt; this might include higher debt repays
 the higher growth rate offset this or not), or difficulty have only on the future.
- May have to lay off workers who were emplose on temporarily

You could draw an AD/AS diagram to il! A your answer, or simply refer to the diagram to il! A your answer, or simply refer to the diagram to il! A your answer, or simply refer to the diagram than drawing it again). A way are used that the policy would be beneficial long as it is well justified the way are used to so would be good because Canada or you may accept the sould be bad because Canada faces falling export prices, low

Case Study

ce's debt problem

Use the data

- 1. 2015; its budget deficit amounted to about -15% of GDP (1).
- 2. Actual values for Greek debt to GDP are 2007: 103.1% and 2015: 176.9% (1) Percentage change is given by the following formula:

$$\% \ Change = \frac{Change}{Original} \times 100$$

Therefore, percentage change is 71.6 (1).

(Note: allow some flexibility in students' answers as long as the estimated values for reasonable.)

3. In 2011, the Greek government negotiated a 'haircut' on debts payable to private fi amounted to a 50% reduction in the debts owed by the Greek government. Therefore between 2011 and 2012 (1).

Test your knowledge...

A 'good tax' is based on the following four principles. First, it should ensure equity
proportional to the ability of individuals to pay, or, in other words, it should be 'fair
meaning that it should be difficult for people to avoid. Third, it should have low ad
be convenient and easy to understand.

Greece's tax policy cannot be thought of as a 'good tax' because it has affected the it is clearly not enforceable because tax evasion is pervasive in the Greek economy consequences in that it has discouraged economic activity and incentivised company.

- 2. A 'budget deficit' refers to a situation in which government expenditure exceeds government (National debt', however, refers to the total amount of debt owed by a government expressed as a percentage of GDP. However, the two constants are related because a necessarily added to the national debt since such the lateral properties of the compounded budget deficited by the compounded by the comp
- 3. Greece's budget deficit is must ikely a mixture of structural and cyclical factors. Structural and cyclical factors. Structural and cyclical factors. Structural fundamental imix in the governmental finances. Cyclical deficits, in contrast, track the formula of the government and cyclical factors, e.g. when an economy is in a recession, tax receipts decreincrease increase years budget balance has consistently been negative from 2007 to 20 because yelical factors, e.g. the global recession. However, it is in part a structural government expenditure is interest payments on debt accumulated over time which structural issue. Moreover, although not shown graphically, Greece has run deficits structural problems are present.



1. Policies to reduce the budget deficit are: (i) decrease government expenditure; (ii) in monetary policy to stimulate economic growth.

Reduction in government expenditure and increases in taxation both directly improposition. When employed together these policies are called 'austerity'. However, the effects on society. It is known that government expenditure has a multiplier effect governments decrease expenditure the effect of this decrease is not one-for-one in a larger effect than the initial change. Therefore, this policy tends to shift AD inward causing negative growth effects in the economy. Importantly, this might decrease the increase the national debt burden by decreasing GDP (as seen in the case of Greece multiplier effect of decreasing government expenditure might have a negative effect cancelling out the policy. It is also important to consider the type of expenditure the cuts could have lasting effects on the supply side of the economic effects of monetary policy it is possible to the engative economic effects on the supply side of the expenditure with expansionary monetary to the expansionary monetary to the expansionary with expansionar

Likewise, increasing taxation ser and impediment to economic growth, but it coincome inequality, and note that it is received at a jung recentled consequences, such as tax evasion, condisruption to economic jung. If an economy is in a recession, increases in taxation Note that the errors in direct conflict with Keynesian approaches to producing grown Finally, when the could attempt to produce economic growth in order to improvate progressive tax systems, economic growth should improve the budget deficit tax receipts should too increase without having to change the fundamentals of the least harmful way of reversing budget deficits. However, achieving growth is difficult Greece, where forced austerity and no control of monetary policy has left them spin Moreover, if the budget deficit is of a structural, rather than cyclical, nature then economic growth in changing the underlying causes of the deficit.

Case Study 10: Monetary and fiscal policy in the Great Depression

Use the data

- 1. 1936 (since the index has returned to 100)
- A recession is defined as two consecutive quarters of negative GDP growth. Figure recession, as GDP fell consistently from 1930–1932.
- 3. 6 months

Test your knowledge...

Pric

- 1. Around 34% larger (index number of 134). 32–26% acceptable.
- Lev® (£)
- 2. (a) Your graph should show a shift to the right in AD. 2 marks for correct labelling (you should show new price level and real GDP level). 2 marks for showing the shift correctly.
 - (b) Possible reasons include: higher consumer spending, higher investment, higher net exports. 1 mark for stating the reason, 1 mark for explanation of how it works (e.g. higher consumption and investment because saving is less worthwhile, higher net exports have exchange rate depreciates as fewer people choose to suppose the depreciates and depreciates as fewer people choose to suppose the depreciates and depreciates and depreciates and depreciates and depreciates and depreciate the depreciates and depreciate the depreciates and depreciates and depreciate the depreciates and dep

Extended-response question

- 1. Your answer should explain at least two or three demand-side policies can increone monetary policies. The seast one fiscal policy). You could include an AD/AS diagrate to the seast one fiscal policy. You should also note some of the drawback.
 - Lo interest rates should increase economic growth, since it increases the (as explained in Question 2). Evaluation: this is only effective up to a point (in zero), and there may be a time lag between changing the rate and seeing an elaso depreciate the currency, which could be damaging for countries which rely
 - You could also mention increasing the money supply, which has similar effects to this could lead to inflation (this is a general criticism of demand-side policies) or la
 - Government spending is an example of fiscal policy that can stimulate growth.
 Its success may depend on the size of the multiplier. However, this spending head to a rise in the budget deficit / national debt. There may also be a substant Another potential evaluative point is that government spending could 'crowd's



Lowering taxes is an expansionary fiscal policy, as it encourages greater econor
depend on the nature of the tax cut (some taxes target particular types of activates).
 Also, lowering taxes could reduce tax revenues, leading to a worsening of the
argue that it would actually increase tax revenues: Laffer curve).

A general criticism you should mention is that demand-side policies can lead to inflate economic growth in the long term. Here, you could note that the rate of inflation in supply is increasing or not. You may reason that demand-side policies are best used normal economic times, since there is more likely to be an output gap.

You don't need to mention all these points to reach a high-level answer. You should points in good detail.

Case Study 11: Ireland's housing market bubble

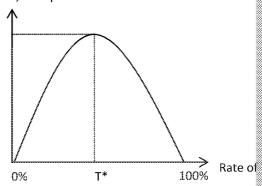
Data response question

- - (b) In 7, 1 index of 166.2 shows house prices are 66.2% higher than the back id be 240,000 * 1.662 = €398,880.
- The answer is (c) it is impossible to determine. Since the prices are all in index figures to be prices. Even though Ireland's house prices were proportionally higher in 200 the UK could have been higher to start with.
- 3. We know from Figure 2 that China's real house prices have followed a modest upwer can't be explained by falling house prices. A more likely explanation is that the averaged steadily: this is a fact you should be aware of (China has single-handedly lifted a stapoverty in the last few decades).

Test your knowledge

- (a) Ireland's house prices increased rapidly from Q1 1993 to a peak in Q1 2007 (1) around 2012 (1), when prices slowly began to pick up again.
 - (b) The index number for Q1 2007 is 344.1. This indicates that (real) prices are 3.4 (when the index number was 100). Any answer between 3 and 3.5 times large
- (a) A 'budget deficit' is a budget position in which government revenue, e.g. from
 expenditure. It is unfavourable for a government to be spending more than it
 increase the size of government debt.
 - (b) Ireland's fiscal policy consisted of increasing government spending and reducing budget = tax revenues government expenditure, this should lead to a budget you can make arguments that in the long term lower taxes lead to higher tax relaffer curve) but this depends on the situation). 1 mark for identifying fiscal pathey lead to a deficit.
- Primarily, the relationship between the tax rate and a government's tax revenue is government revenue. It might seem plausible that suggests are also noptimal rate of tax government revenue. It might seem plausible that in plausing the rate of taxation also However, at higher rates of taxation are also by to be less incentive to supply effort tax. (Note, an easy way of vice ising taxs relationship is by imagining a 100% tax rate would exert any effort in some government's revenue would be zero. Likewise, a revenue would be zero. Therefore, the optimal rate of tax is somewhere in between

Government Revenue





Your answer should note that deregulation of markets is traditionally seen as positive capacity of an economy, shifting LRAS to the right. This should be shown on an AD/s labelling, and shift in AS shown correctly). You could explain that freeing businesses is generally seen as positive (it often increases employment), and that it may enhance and encourage foreign investment into the country (as it did in Ireland's case). It also unlike many other supply-side policies (e.g. education).

On the negative side, clearly in Ireland's case too much deregulation was a bad thin behaviour to emerge. If financial institutions cannot effectively self-regulate, then or oversee the industry to some degree. On an AD/AS diagram, you could potential AS (during the boom) following by a fall in AS (during the recession) — this is not requestion should mention that the effectiveness of deregulation depends on the dathe industry to start with.

Case Study 12: Supply-side policies – print io. io the UK

Use the data

- 1. The index shows about 3 managed to 100, so labour productivity is twice as high
- 2. Figure a physiall in government spending, which is exactly what you would private since the government is no longer funding these industries). The fall to do with mils, or perhaps to do with the tax cuts under the Conservative government.
- The 1970s shows very high spending and tax revenues as a percentage of GDP. One during this period (particularly income tax) were significantly higher than they are t

Test your knowledge...

Price

Level

The main benefit is any gains from competition (efficiency) (1). The costs identified are loss of employment in industries (1), and the

(£)

divisions in society caused by privatisation.

2. Your graph should show a shift to the right by LRAS: 2 marks for correct

 P_{λ}

labelling (including new price level and real GDP levels), 2 marks for showing shift correctly. Classical LRAS diagrams are equally acceptable.

P₂

Extended-response question

1. Your answer should identify the purpose of each type of policy. For example:

Demand-side policies: used to influence AD, contribute more to short-run economic than long-run economic growth, particularly useful in recessions.

Supply-side policies: used to influence AS, essential for long-run economic growth, high short-term opportunity cost.

Case Study 13: Productivity - the in the growth?

Use the data

- 1. (a) Australi
 - (b) Fi
 - (c) Ca but this has had a positive effect on every country's growth.
 - (d) About 2% (between 1.5% and 2.5% acceptable)
 - (e) Ireland gained 1% from capital input, but lost a little over 2% from labour input net result is a GDP growth rate of around −1.4% (between −1% and −1.8% access
- 2. Spain has suffered from severe unemployment since the recession (as well as very probably why the graph shows such a heavy loss in GDP from falling labour input.



Test your knowledge

1. Diagram should show a shift to the left in aggregate supply. Up to 2 marks for correct labelling, up to 2 marks for showing the shift correctly.

Price Level (£)

 Possible factors include: technological improvements, changes to regulations, demographic changes, migration, competition policy, infrastructure investment, improvements in the healthcare system (other examples are possible if they can be justified). 1 mark for each factor.

Extended-response question

 The benefits of this policy are clear: increasing productivity increases LRAS, which increases the ability of the economy to grow in the long run (greater potential growth). This could be illustrated using a diagram – it may also be helpful to explain how better education increases productivity.

Several evaluative comments could be made, including

- Opportunity cost involved with full in the scrieme
- Possible that more mon ്രാസ് ി പ്രാല്ലാന് on education, but actual quality of es
- Economic growth was occur if demand keeps up with supply
- If the president of the people to find jobs substituted jobs increases
- Loi lag between starting the policy and seeing results: politicians may no

Case Study 14: Policy conflicts - inflation and unemployment

Use the data

- When unemployment falls by three percentage points to 6%, the trend line shows to (2.5% points higher than the 5% predicted at 9% unemployment).
 Note that the trend line only provides an estimate based on this data: the result probability.
- (c) No relationship. A positive relationship would be upward sloping; a negative relationing. The standard Phillips Curve shows an 'inverse relationship'.

Test your knowledge...

- Inflation targeting refers to a monetary policy regime in which the central bank contactions achieve an explicit target rate of inflation (1).
- 2. When unemployment is high, firms can lower wages and still attract workers (1). We falls (1). You could also note that when unemployment is high, incomes fall, demand
- 3. The main other policy conflicts are: economic growth and inflation, economic growth economic growth and environmental protection, economic growth and inequality. mark for explaining how each one works (e.g. high economic growth can lead to demarks for other policy conflicts if they are well justified.

Extended-response question

Your answer should note that allowing either inflation or unemployment to get out near-zero unemployment means that inflation ends up at then it would probably unemployment to bring down inflation. Similarly make usery low and stable inflation cause serious problems for the economy. It may mere of a balance is preferable.

As part of your answer you shall one of the costs of inflation and unempliinflation is actually contact of 300 d if it is stable and low (the Bank of England target unemplated in the stable of England target universal time.) The stable are stable and low (the Bank of England target universal target) and the stable and low (the Bank of England target universal target).

A good evaluative point would be that the question assumes that there is always a unemployment. As the passage states, there may have been a breakdown of the Pl in which case there is less need for the government to balance the two issues (they



Case Study 15: China and exchange rate management

Use the data...

- From Figure 1, students are likely to estimate that Chinese exports-to-GDP is about 37.5% of \$2,752.68 billion is \$1,032.26 billion - 0.375 × 2,752.68 = 1032.255
- Chinese exports fell from 2006 to 2008 because the Chinese government allowed the foreign exchange markets. Instantly the currency appreciated from its pegged leve have become more expensive relative to other international competitors. Naturall exports increases, consumption shifts to cheaper alternatives. Another factor is that the 2008 global recession. Thus, as incomes fall internationally there will be less de
- 2005's USD/CNY exchange rate is approximately 1 USD to 8.25 Chinese yuan. In 20 1 USD to 6.25 Chinese yuan. Therefore, the percentage change in the price of the

% Change
$$6.25$$
 ≈ 5 $\times 100 = -24.24$

 $\%~Change = \frac{6.25}{3.25} \times \frac{5}{100} \times 100 = -24.24$ This is an appreciation in the Chinese yields the USD – this is because it now purchase a single USD than befrace with a depreciation of the USD again a USD can now purchang with which before.)

Test your knd

- Absolute awantage refers to the ability of a country to produce something more co resources) than another country. Note, it is possible for a country to not have an a of anything. Comparative advantage, in contrast, refers to the ability of a country to efficiently than another. Comparative advantage is concerned with production at I
- 2. (a) Terms of trade is the ratio of a country's price of exports relative to its price of formula:

$$Terms \ of \ trade \ (TOT) = \frac{Index \ of \ export \ prices}{Index \ of \ import \ prices}$$

- (b) Export prices increased by 2%. Import prices decreased by 6%. Therefore, the (1.02)/(0.94) = 1.085, or an 8.5% increase. This amounts to an improvement i unit of exports, a country can import more than before.
- 3. Floating exchange rates are exchange rates determined by the forces of demand are exchange markets. Fixed exchange rates, by contrast, are exchange rates that are a government or central bank, and maintained through buying and selling of foreign 🏽 stability at the pegged rate.
- 4. When a country depreciates (floating exchange rates) or devalues (fixed exchange rates) suggests that there should be an improvement in the current account balance, ceter country's exports now appear more price-competitive in international markets, whill expensive. However, the J-curve effect suggests that the current account might work devalues. It might be the case that imports are fairly inelastic in the short run, e.g. b obligations to import a certain quantity, or because there are currently no suitable di true that exports are inelastic, e.g. if producers are unable to meet increases in dom lack of spare capacity. Therefore, in the short run a fall in the liue of domestic curr balance because the value of pre-contracted and managements increases while exports. Essentially, there is a time lag before don coation is able to have the design account. However, as domestic provide for expands to meet increases in foreign de that consumption can shift to make production, the current account improves. A might not see the decrease tick as permanent, and so initially they will not change the This is tell on the J-curve diagram. Time is measure on the x-axis, the current

Initially, nomy is running a current account deficit. The currency devalues a worsening of the current account deficit – this is represented by the bottom half of and consumption become more flexible the current account improves, until the eco 

Balance of payments SURPLUS + DEFICIT -

Extended-response question

1. Costs

- Chinese currency manipulation can cause current account imbalances in the US be Chinese and American products. Chinese producers already have a cost advantage labour-abundant and has developed efficient production methods. However, manundervalued further disadvantages American producers. Chinese products are the current account deficit in the US – that is, there are imbalances in international transpirational students might research how exactly the US trade balance has change
- Another consideration is that an undervalued Chinese currency has imported economy to the US. This is related to the preceding point. Primarily, US firms international markets because of Chinese competition, which reduces the numexport-orientated production. Second, Chinese competition also harms dome domestic consumers because Chinese imports are relatively inexpensive. National US workers needed for production.
- The US has become debt-dependent on China. In order to manipulate current
 assets. China has purchased a large number of US treasury bonds in order to
 because US bonds needs to be purchased in US dollars, so China purchases dol
 effectively increasing international demand for dollars while oversupplying yu
 currency relatively low. The US now owes China payment of these bonds.

Benefits:

- Obviously, the biggest benefit to the US of an undervalued Chinese currency is to purchase cheap Chinese products in abundance. First, this has benefits in the wealthier that is, consumers feel that they have a highen purchasing power, a Second, this benefits the domestic US economy by purchasing power, a purchasing power input prices down effects of cost-push inflation.
- Moreover, because the Chinese graph and must purchase US financial assets currency, the US has been suct to applie interest rate low. The US government cost. (However and a counterpoint is that these low interest rates might be applied to the cost of the counterpoint is that these low interest rates might be applied to the counterpoint in the counterpoint is that these low interest rates might be applied to the counterpoint in the counterpoint is that these low interest rates might be applied to the counterpoint in the counterpoint in the counterpoint is that these low interest rates might be applied to the counterpoint in the counterpoint in the counterpoint is that these low interest rates are counterpoint in the counterpoint in the counterpoint in the counterpoint is that these low interest rates are counterpoint in the counterpoint is that these low interest rates are counterpoint in the c

Case Study 1 Should we be worried about the UK's current account deficit? Use the data

- 1. (a) Secondary income (or net international transfers)
 - (b) Primary income (or net investment income). Despite the fall in the deficit in 2 been clearly downwards.
- 2. (a) £49.6 billion (3.1% of 1,600 billion)
 - (b) £94.5 billion (5.4% of 1,750 billion)



Test your knowledge...

- The 'balance of payments' is a record of transactions between agents of one country
 includes the current account, capital account and financial account (1). The current
 in goods and services. The financial account refers to financial transactions, e.g. inv
 includes physical capital transactions, e.g. FDI (1).
- (a) This would represent an improvement in the net investment income balance—would improve (i.e. become closer to a surplus). 1 mark for improvement in net 1 mark for current account balance improvement.
 - (b) Since the extract states that the UK is a net importer of oil, an increase in price worsening the net trade component of the current account balance (i.e. great cost of imports, 1 mark for worsening of current account balance.

An alternative answer could be: rising oil prices may reduce the demand for oil imports may fall (1), which may lead to no effect on the account (or a self-weight and the case since oil is a self-weight and most countries (1) elasticity of demand.

Extended-response question

- 1. The main benefit of the sealing is that it should boost the amount of exports from (ceterises). The main benefit of the sealing is likely to be more successful if it focuses on an index well in. The main benefit of the sealing is likely to be more successful if it focuses on an index well in.
 - Op amity cost involved
 - Possible x-inefficiency (from micro-problems with subsidies reducing the efficish
 - If other countries are more competitive in these markets, this strategy may not compete with countries such as China, which benefit from low unit labour coss

Other evaluation points you could mention include: success depends on the world dinitial size of the export sector receiving the investment.

You should come to a conclusion as to whether you think the policy would be succe which it would / would not be successful). You can be for or against the idea, provide

Case Study 17: When will the UK raise interest rates?

Use the data

- The answer is (a) disinflation. This is a reduction (fall) in the rate of inflation. Although deflation (e.g. April 2015), this does not describe the majority of the period.
- Deflation can reduce economic growth, since the value of money is increasing rather
 people to hold onto money, reducing demand, and potentially leading to further defalls, GDP growth falls, unemployment increases and tax revenues fall: all of these can be a support of the can be a support of the support of
- 3. If £1 = £1.15, then £1 = (1/1.15) = £0.87 (rounded to nearest penny). Therefore, £ £43.48 £43.50 to allow for rounding.)

Test your knowledge...

- 1. Possible reasons could include: low aggregate demand (or low components of AD, e.g. oil/energy prices, slow wage growth, strong exchange rate (which leads to low import
- 2. (a) An increase in the interest rate would be expect a applicate (strengthen) because it becomes more attractive to save in resaids (1).
 - (b) An appreciation of the exchanging the speed be expected to reduce exports (1). It would also be expected to in grase imports (1), since the purchasing power effect of this is to be a growth and balance (or widening of the trade deficit) much the speed of the inhigher unemployment.)

Extended-response question

- Your answer should first explain how lowering interest rates can stimulate growth (investment, increase in net exports via depreciation of currency, etc.). You should to of lowering interest rates alone, based on the passage and your own knowledge.
 - Time lag between changing interest rates and change in other economic variable
 - Zero-lower bound for interest rates (although Japan has broken this unwritter)
 - There are situations when lowering interest rates is not enough to kick-start g
 instruments such as quantitative easing, or fiscal policy such as government sp
 - Low interest rates are supposed to discourage saving, but if households and fill reduce their debts), then they may end up saving anyway. This was the case in

