

Topic on a Page

For AS & A Level Edexcel A Economics:

Theme 1

Z Mujib

zigzageducation.co.uk

POD 6906

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

Contents

Thank You for Choosing ZigZag Education	ii
Teacher Feedback Opportunity	
Terms and Conditions of Use	iv
Teacher's Introduction	ν
A3 Activity Pages	6 pages
1.1: Nature of Economics	
1.2a: How Markets Work	
1.2b: How Markets Work	
1.2c: Taxes and Subsidies	
1.3: Market Failure	
1.4: Government Intervention	
A3 Summary Pages	6 Pages
All Topics	
A4 Summary Pages	6 Pages
All Topics	

Teacher's Introduction

This resource covers the A Level Edexcel A Economics specification for Theme 1: Introduction to Markets and Market Failure. It provides six A3 posters, each covering all the subtopics.

It is intended as a summary of the material and focuses on the main points rather than the detail, so all important areas are covered, without going into too much depth. The posters can be displayed on classroom walls, or given to students to learn with in lessons or at home. The resource can be used to help students to revise at the end of a topic, or before a test or an exam.

Activity versions of the posters are also included, where some of the sections are blank, so that the students can test their knowledge by completing these. Answers for these activities are on the summary sheets.

Different styles and layouts are used to help to make the information interesting, and to help the students engage with the information in a productive way.

If teachers wished to add extra annotations to clarify or add further information, they could do this as well.

Some of the subtopics are linked, and it will be helpful for students to view the whole of each poster to help them to make connections between concepts. However, posters have clear-cut divisions between subtopics, and the teacher could choose to give students part of a poster, if they wish to focus on a particular subtopic.

The symbol



is used to denote quantitative skills.

Z Mujib, October 2016

Free Updates!

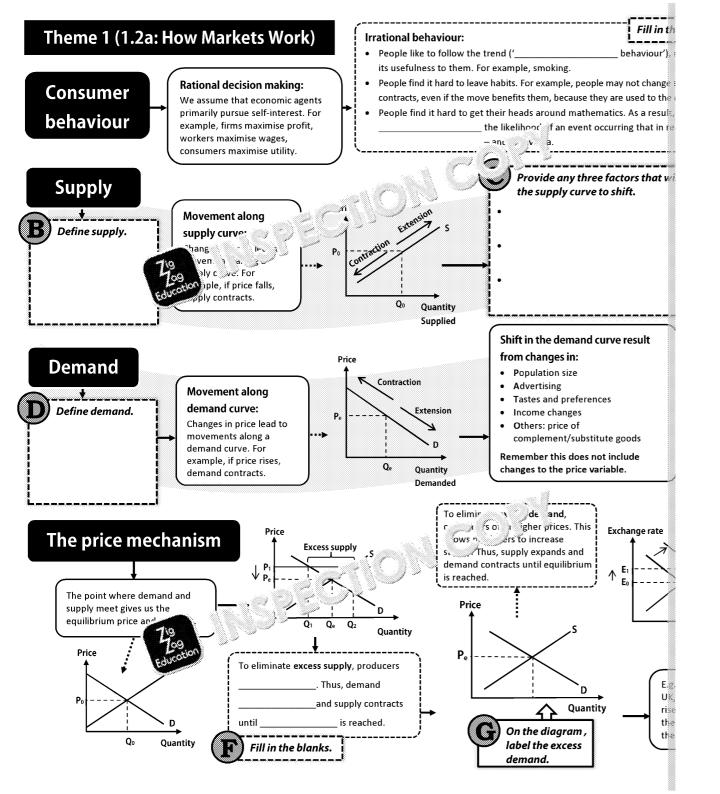
Register your email address to receive any future free updates* made to this resource or other Economics resources your school has purchased, and details of any promotions for your subject.

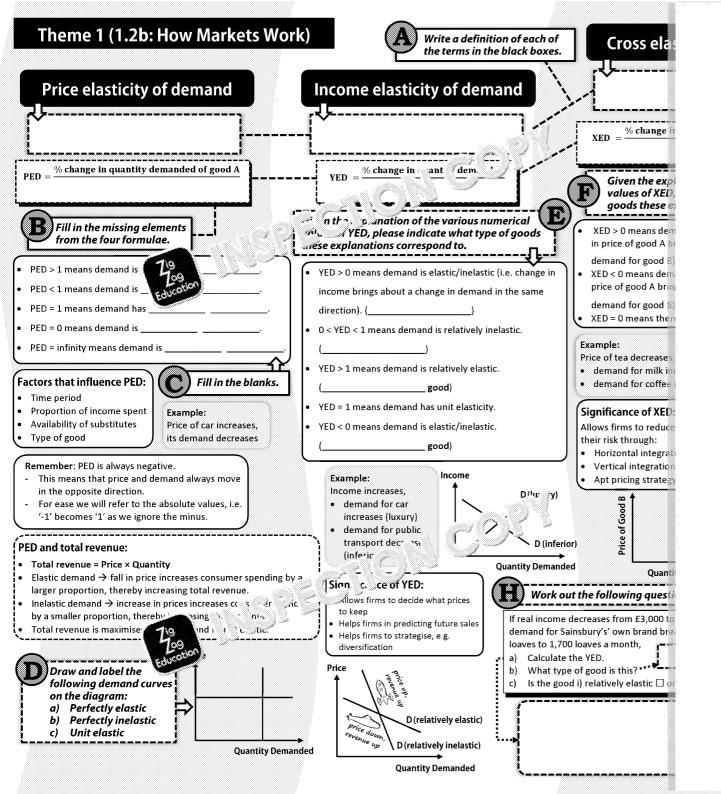
* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

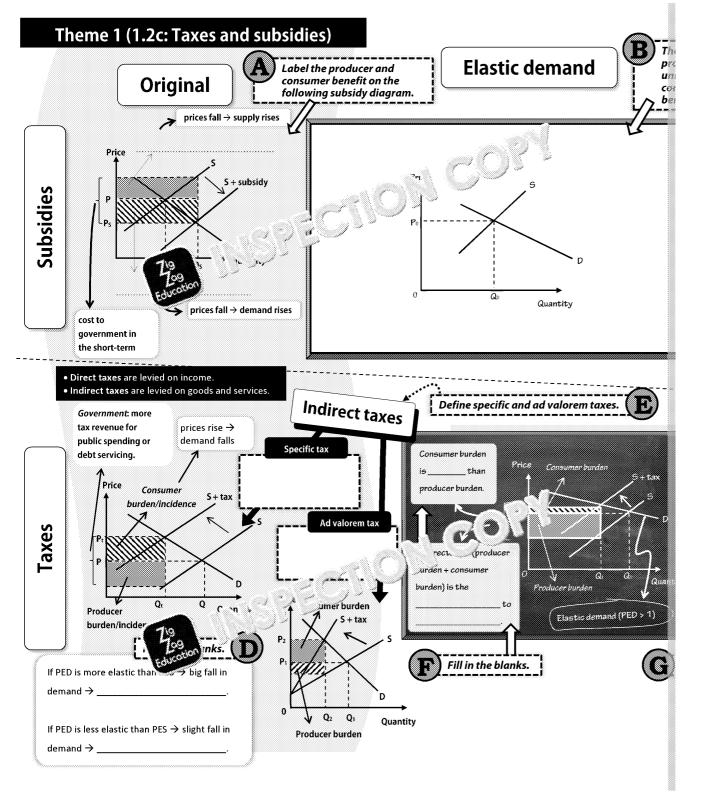
Go to zzed.uk/freeupdates

1.1: Nature of Economics What is the me √ Economics is a social science Economists need to because it is a study of society interpret data and and human behaviour. In order to find a causal link use graphs to between two variables. illustrate models. certain assumptions need to Unlike scientists, economists be made. These assumptions are usually unable to test PPFs an form the basis of predictions. hypotheses in a lab using controlled experiments. They economic mostly have to rely on evidence Process of creating that is already available. economic models: Observation Renewable resources replenis Economics as a s Forming hypothesis quickly, e.g. sunlight. Forming predictions Non-renewable resources do Testing predictions against not replenish quickly, e.g. oil. What a in Ja. ' prinative statements? evidence If evidence supports predictions, hypothesis ✓ PPF shows the op combination of out becomes theory. types of goods whe Normative statements: Main 'assumption' in econom resources are utilise ceteris paribus = everything else remains constant Consumer goods are directly bo Capital goods are used to make These value judgments may be used to influence certain economic decisions. So more capital goods help prod For example, in the case of a market failure, should the government intervene? Advantages: **Adam Smith** ✓ Division of labour is about Efficient use of resources splitting work into various Competition means low small tasks so that each task is performed by the same Smith argued that markets group of labourers always existed (even before repeatedly. Efficient us the state) due to the natural No waste division of labour, which led to specialisation and hence Production the need to exchange goods. List three advantages However, the barter system of division of labour √ Specialisation is about is inherently flawed. focusing on producing What do we mean by only a few products to What are the main achieve efficiency. a free market economy? functions of money? Advantages: Efficient use of resources. Improves economic growth List three disadvant of specialisation. Role of state: Disadvantages: Only intervene following a Repetitive tasks can cause boredom. High worker turnover. market failure. Splitting tasks allows easily switching to machines. Can cause Only provide public goods, structural unemployment. welfare spending, etc. Production process may in fact take longer as workers become dependent on each other.

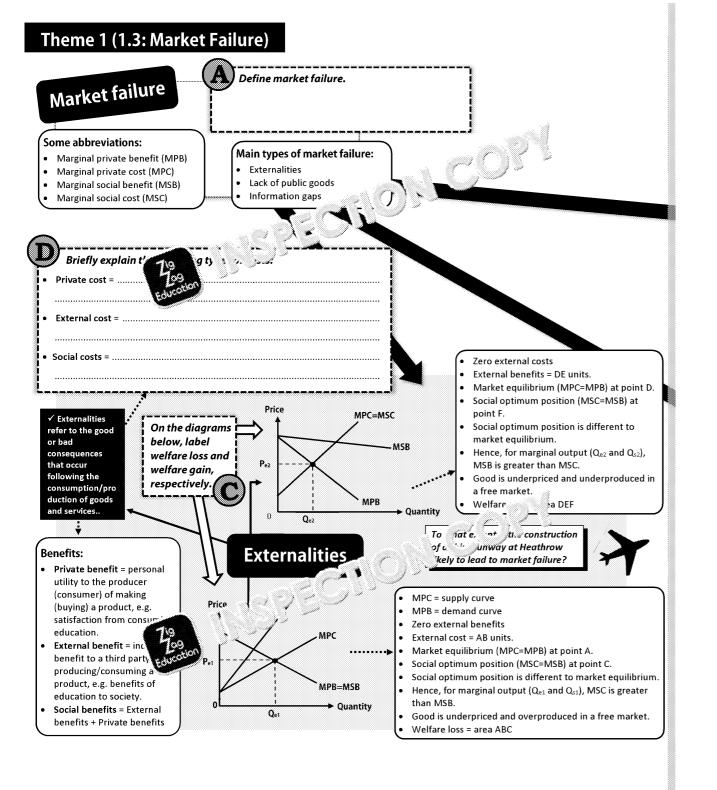
COPYRIGHT PROTECTED

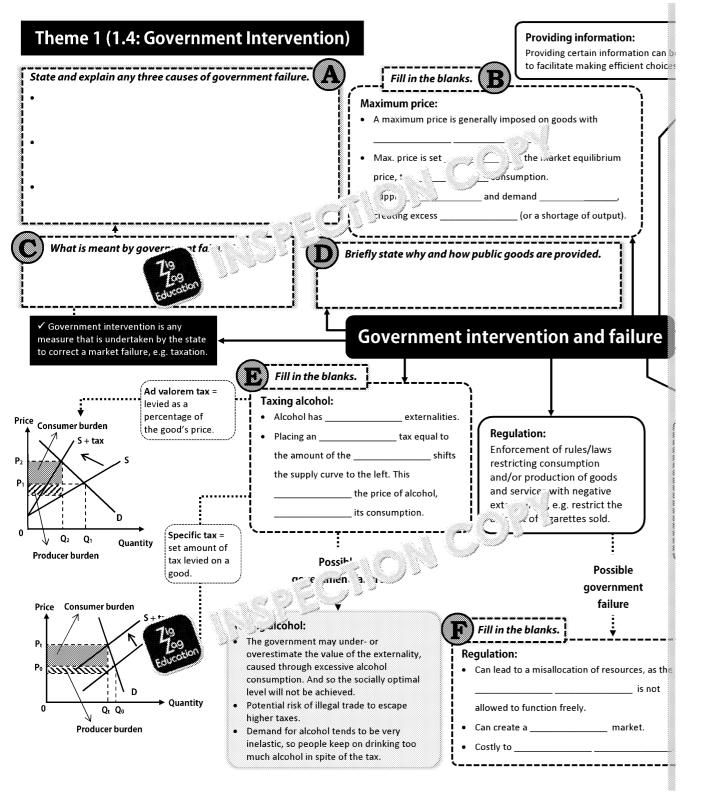














Theme 1 (1.1: Nature of Economics)

In order to find a causal link between two variables. certain assumptions need to be made. These assumptions form the basis of predictions.

Process of creating economic models:

- Observation
- · Forming hypothesis
- Forming predictions
- Testing predictions against evidence
- If evidence supports predictions, hypothesis becomes theory.

Main 'assumption' in economics is: ceteris paribus

✓ Economics is a social science because it is a study of society and human behaviour.

Unlike scientists, economists are usually unable to test hypotheses in a lab using controlled experiments. They mostly have to rely on evidence that is already available.

Economics as







Main ec = scarcity becau

while our wan

Renewable resource sunlight.

Non-renewable reso quickly, e.g. oil.

✓ PPF shows the op combination of out types of goods whe resources are utilise

- Consumer goods are directly bough
- Capital goods are used to make con
- So more capital goods help produce

everything else remains constant.

Adam Smith

Smith argued that markets always existed (even before the state) due to the natural division of labour, which led to specialisation and hence the need to exchange goods. However, the barter system is inherently flawed.

Functions of money

- Medium of exchange
- Measure of val-
- ful i d

Advantages:

Repeating on the k

🐧 💲 pased on facts. Can be tested and proven

and cannot be proven true or false.

✓ Division of labour is about splitting work into various

small tasks so that each task

is performed by the same

group of labourers

repeatedly.

ormative statements > value judgments or subjective opinions,

These value judgments may be used to influence certain

failure, should the government intervene?

economic decisions. For example, in the case of a market

nev s dimmoving રા ૧૯. wsks.

Less time and money spent on training workers.

- Store cf

Disadvantages:

- Repetitive tasks can cause boredom. High worker turnover.
- Splitting tasks allows easily switching to machines. Can cause structural unemployment.
- Production process may in fact take longer as workers become dependent on each other.

Advantages:

Efficient use of resources Competition means low



✓ Free market economy - where the economy is driven by the price mechanism.

Role of state:

- Only intervene following a market failure.
- Only provide public goods, welfare spending, etc.

COPYRIGHT **PROTECTED**

growth. Disadvantages:

Advantages:

Country becomes overreliant on certain goods.

√ Specialisation is about

focusing on producing

only a few products to achieve efficiency.

Efficient use of resources. Improves economic

- Can experience supply and demand side shocks.
- This could lead to massive unemployment.



Theme 1 (1.2a: How Markets Work) Irrational behaviour: People like to follow the trend ('herding behaviour'), regardless of its them. For example, smoking. People find it hard to leave habits. For example, people may not chang Rational decision making: Consumer contracts, even if the move benefits them, because they are used to the We assume that economic agents People find it hard to get their heads around mathematics. As a resu primarily pursue self-interest. For behaviour overestimate the likelihood of an event occurring that in reality has a example, firms maximise profit, probability - and vice versa workers maximise wages, consumers maximise utility. ift in the supply curve: Supply Subsidies provided by the government Indirect taxes imposed by the government Changes in the number of firms in the Movement along providing a particular good or service supply curve: √ Supply is the amount of · Changes in technology a good or service that a Changes in costs, such as wage costs o firm wants to and is able of capital goods əly c يعك. For to sell at a certain price, Changes in the quantity of a resource, ple, if price falls, in a given time period. emergence of a new gas field ly contracts. Ouantity Remember this does not include changes Supplied price variable. Price **Demand** Shift in the demand curve result from Contraction Population size Movement along Advertising ✓ Demand is the amount of demand curve: Tastes and preferences Extension goods and services that Changes in price lead to Income changes consumers want and can Others: price of complement/substitut movements along a afford to buy for a given price demand curve. For Remember this does not include changes over a given time period. example, if price rises, Q_e price variable. Quantity demand contracts. Demanded ા ૃd∈ and, a so a igher prices. This Exchange r Price The price mechanism ers to increase Excess supply s. Thus, supply expands and demand contracts until equilibrium is reached. The point where demand and supply meet gives us the equilibrium price and Quantity Price **Excess demand** Price To eliminate excess supply, producers offer lower prices. Thus, demand rises riss

and supply contracts until equilibrium

is reached.

 Q_0

Quantity

Quantity

COPYRIGHT PROTECTED

Theme 1 (1.2b: How Markets Work)

Price elasticity of demand

Measures the responsiveness of demand following a change in price

% change in quantity demanded of good A % change in price of good A

- PED > 1 means demand is relatively elastic.
- PED < 1 means demand is relatively inelastic.
- PED = 1 means demand
- PED = 0 means deman inelastic.
- PED = infinity means de elastic.



- Time period
- Proportion of income spent
- Availability of substitutes
- Type of good

Example:

Price of car increases, its

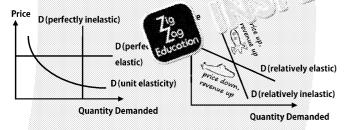
demand decreases

Remember: PED is always negative.

- This means that price and demand always move in the opposite direction.
- For ease we will refer to the absolute values, i.e. '-1' becomes '1' as we ignore the minus.

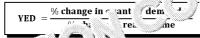
PED and total revenue:

- Total revenue = Price × Quantity
- Elastic demand → fall in price increases consumer spending by a larger proportion, thereby increasing total revenue.
- Inelastic demand → increase in prices increases consumer spending by a smaller proportion, thereby increasing total
- Total revenue is maximised when demand is unit elaction



Income elasticity of demand

Measures the responsiveness of demand following a change in income



- YED: I wans demand is elastic/inelastic Z change in income brings about a change in demand in the same direction). (Normal good)
- 0 < YED < 1 means demand is relatively inelastic. (Necessity)
- YED > 1 means demand is relatively elastic. (Luxury good)
- YED = 1 means demand has unit elasticity.
- YED < 0 means demand is elastic/inelastic. (Inferior good)

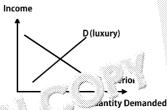
Example:

Income increases,

- demand for car increases (luxury)
- demand for public transport decreases (inferior)

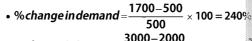
Significance of YED:

- Allows firms to decide what prices to keep
- Helps firms in predicting future sales
- Helps firms to strategise, e.g. diversification



If real income decreases from £3,000 to £2,000 a month and the d Sainsbury's' own brand bread increases from 500 loaves to 1,700 l month.

- Calculate the YED.
- What type of good is this?
- Is the good relatively elastic or inelastic? Relatively elastic (



• %change in income =
$$\frac{3000-2000}{2000} \times 100 = 50$$

•
$$YED = \frac{240}{50} = 4.8\%$$

Cross e

Measures the response following a ch

% change 2

- XED > 0 means demand is price of good A brings abo for good B). (Substitute go
- XED < 0 means demand is price of good A brings abo demand for good B). (Com XED = 0 means there is no

Example:

Price of tea decrease

- demand for milk
- demand for coffe

Significance of XE

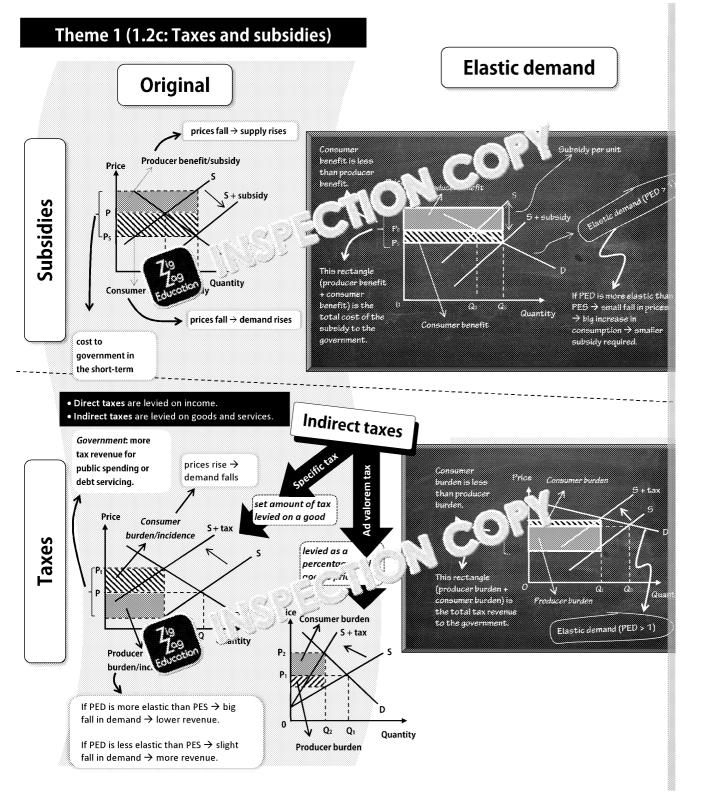
Allows firms to redu through:

- Horizontal integral
- Vertical integration
- Apt pricing strate

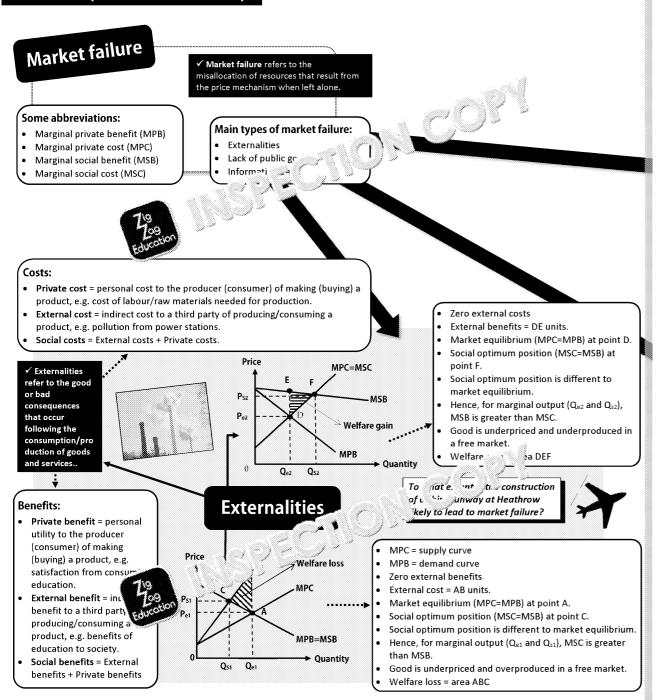




COPYRIGHT **PROTECTED**



Theme 1 (1.3: Market Failure)



COPYRIGHT PROTECTED

Theme 1 (1.4: Government Intervention) Providing informa Providing certain information can be r mandatory to facilitate Causes of government failure: Maximum price: making efficient cho • Distortion of price mechanism = misallocation of resources when · A maximum price is generally imposed the price mechanism does not operate freely. on goods with positive externalities. • Unintended consequences = state intervention can have added · Max. price is set below the market undesirable effects. equilibrium price, to encourage · Administrative costs, e.g. monitoring compliance of rules and consumption. collecting of fines, taxes, etc. Supply contracts a uei and it ids, • Asymmetric information = governments may lack all essential creatin your diagn or wishortage information necessary to make informed decisions. Conflicting priorities = can lead to incorrect or compromised Tradable po measures taking place to deal with market failure. • Permits • Firms ca Public goods: Gives inc. ✓ Government failure is a As free markets do not provide public goods, This met misallocation of resource governments raise taxes to provide them. market b from government interve correct market failure) ✓ Government intervention is any **Government intervention and failure** measure that is undertaken by the state to correct a market failure, e.g. taxation. Ad valorem tax = Taxing alcohol: levied as a · Alcohol has negative externalities. percentage of Consumer burden the good's price. · Placing an indirect tax equal to the Regulation: amount of the externality shifts the Enforcement of rules/laws supply curve to the left. This increases restricting consumption the price of alcohol, discouraging its and/or production of goods consumption. and service with negative This will decrease the negative , e.g. restrict the externality, while tax revenue can be used for improving a country's welfare. √of ₃arettes sold. Specific tax = \mathbf{Q}_2 **Ouantity** set amount of Producer burden **Possible** tax levied on a Possible good government failure Price Consumer burden

The government may under- or overestimate the

value of the externality, caused through excessive alcohol consumption. And so the socially optimal

· Potential risk of illegal trade to escape higher taxes.

people keep on drinking too much alcohol in spite

· Demand for alcohol tends to be very inelastic, so

Regulation:

· Can lead to a misallocation of

mechanism is not allowed to

Costly to monitor compliance.

resources, as the price

· Can create a black market.

function freely.

xio. ohoi:

of the tax.

Quantity

level will not be achieved.

Po POSTATO PA

Producer burden

COPYRIGHT PROTECTED



Theme 1 (1.1: Nature of Economics)

In order to find a causal link between two variables. certain assumptions need to be made. These assumptions form the basis of predictions.

Process of creating economic models:

- Observation
- · Forming hypothesis
- Forming predictions
- Testing predictions against evidence
- If evidence supports predictions, hypothesis becomes theory.

Main 'assumption' in economics is: ceteris paribus

✓ Economics is a social science because it is a study of society and human behaviour.

Unlike scientists, economists are usually unable to test hypotheses in a lab using controlled experiments. They mostly have to rely on evidence that is already available.

Economics as







Main ec = scarcity becau

while our wan

Renewable resource sunlight.

Non-renewable reso quickly, e.g. oil.

✓ PPF shows the op combination of out types of goods whe resources are utilise

- Consumer goods are directly bough
- Capital goods are used to make con
- So more capital goods help produce

everything else remains constant.

Adam Smith

Smith argued that markets always existed (even before the state) due to the natural division of labour, which led to specialisation and hence the need to exchange goods. However, the barter system is inherently flawed.

Functions of money

- · Medium of exchange
- Measure of val-
- ful i d

Advantages:

Repeating on the k

🐧 💲 pased on facts. Can be tested and proven

and cannot be proven true or false.

✓ Division of labour is about splitting work into various

small tasks so that each task

is performed by the same

group of labourers

repeatedly.

ormative statements > value judgments or subjective opinions,

These value judgments may be used to influence certain

failure, should the government intervene?

economic decisions. For example, in the case of a market

nev s dimmoving રા ૧૯. wsks.

Less time and money spent on training workers.

- Store cf

Disadvantages:

- Repetitive tasks can cause boredom. High worker turnover.
- Splitting tasks allows easily switching to machines. Can cause structural unemployment.
- Production process may in fact take longer as workers become dependent on each other.

Advantages:

Efficient use of resources Competition means low



✓ Free market economy - where the economy is driven by the price mechanism.

Role of state:

- Only intervene following a market failure.
- Only provide public goods, welfare spending, etc.

COPYRIGHT **PROTECTED**

growth. Disadvantages:

Advantages:

Country becomes overreliant on certain goods.

√ Specialisation is about

focusing on producing

only a few products to achieve efficiency.

Efficient use of resources. Improves economic

- Can experience supply and demand side shocks.
- This could lead to massive unemployment.



Theme 1 (1.2a: How Markets Work) Irrational behaviour: People like to follow the trend ('herding behaviour'), regardless of its them. For example, smoking. People find it hard to leave habits. For example, people may not chang Rational decision making: Consumer contracts, even if the move benefits them, because they are used to the We assume that economic agents People find it hard to get their heads around mathematics. As a resu primarily pursue self-interest. For behaviour overestimate the likelihood of an event occurring that in reality has a example, firms maximise profit, probability - and vice versa workers maximise wages, consumers maximise utility. ift in the supply curve: Supply Subsidies provided by the government Indirect taxes imposed by the government Changes in the number of firms in the Movement along providing a particular good or service supply curve: √ Supply is the amount of · Changes in technology a good or service that a Changes in costs, such as wage costs o firm wants to and is able of capital goods əly c يعك. For to sell at a certain price, Changes in the quantity of a resource, ple, if price falls, in a given time period. emergence of a new gas field ly contracts. Ouantity Remember this does not include changes Supplied price variable. Price **Demand** Shift in the demand curve result from Contraction Population size Movement along Advertising ✓ Demand is the amount of demand curve: Tastes and preferences Extension goods and services that Changes in price lead to Income changes consumers want and can Others: price of complement/substitut movements along a afford to buy for a given price demand curve. For Remember this does not include changes over a given time period. example, if price rises, Q_e price variable. Quantity demand contracts. Demanded ા ૃd∈ and, a so a igher prices. This Exchange r Price The price mechanism ers to increase Excess supply s. Thus, supply expands and demand contracts until equilibrium is reached. The point where demand and supply meet gives us the equilibrium price and Quantity Price **Excess demand** Price To eliminate excess supply, producers offer lower prices. Thus, demand rises riss

and supply contracts until equilibrium

is reached.

 Q_0

Quantity

Quantity

COPYRIGHT PROTECTED

Theme 1 (1.2b: How Markets Work)

Price elasticity of demand

Measures the responsiveness of demand following a change in price

% change in quantity demanded of good A % change in price of good A

- PED > 1 means demand is relatively elastic.
- PED < 1 means demand is relatively inelastic.
- PED = 1 means demand
- PED = 0 means deman inelastic.
- PED = infinity means de elastic.



- Time period
- Proportion of income spent
- Availability of substitutes
- Type of good

Example:

Price of car increases, its

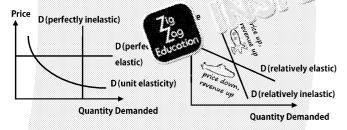
demand decreases

Remember: PED is always negative.

- This means that price and demand always move in the opposite direction.
- For ease we will refer to the absolute values, i.e. '-1' becomes '1' as we ignore the minus.

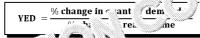
PED and total revenue:

- Total revenue = Price × Quantity
- Elastic demand → fall in price increases consumer spending by a larger proportion, thereby increasing total revenue.
- Inelastic demand → increase in prices increases consumer spending by a smaller proportion, thereby increasing total
- Total revenue is maximised when demand is unit elaction



Income elasticity of demand

Measures the responsiveness of demand following a change in income



- YED: I wans demand is elastic/inelastic Z change in income brings about a change in demand in the same direction). (Normal good)
- 0 < YED < 1 means demand is relatively inelastic. (Necessity)
- YED > 1 means demand is relatively elastic. (Luxury good)
- YED = 1 means demand has unit elasticity.
- YED < 0 means demand is elastic/inelastic. (Inferior good)

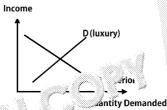
Example:

Income increases,

- demand for car increases (luxury)
- demand for public transport decreases (inferior)

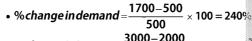
Significance of YED:

- Allows firms to decide what prices to keep
- Helps firms in predicting future sales
- Helps firms to strategise, e.g. diversification



If real income decreases from £3,000 to £2,000 a month and the d Sainsbury's' own brand bread increases from 500 loaves to 1,700 l month.

- Calculate the YED.
- What type of good is this?
- Is the good relatively elastic or inelastic? Relatively elastic (



• %change in income =
$$\frac{3000-2000}{2000} \times 100 = 50$$

•
$$YED = \frac{240}{50} = 4.8\%$$

Cross e

Measures the response following a ch

% change 2

- XED > 0 means demand is price of good A brings abo for good B). (Substitute go
- XED < 0 means demand is price of good A brings abo demand for good B). (Com XED = 0 means there is no

Example:

Price of tea decrease

- demand for milk
- demand for coffe

Significance of XE

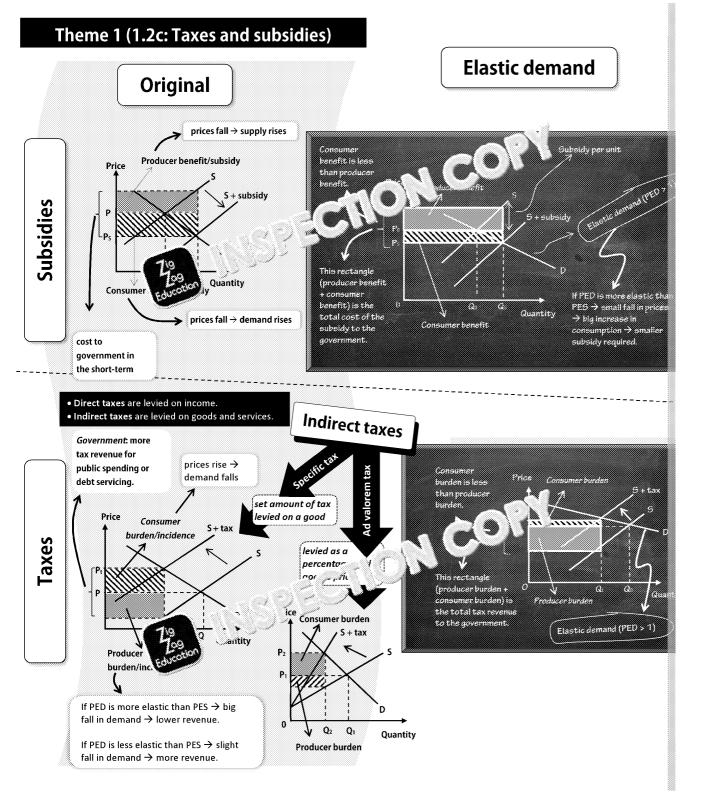
Allows firms to redu through:

- Horizontal integral
- Vertical integration
- Apt pricing strate

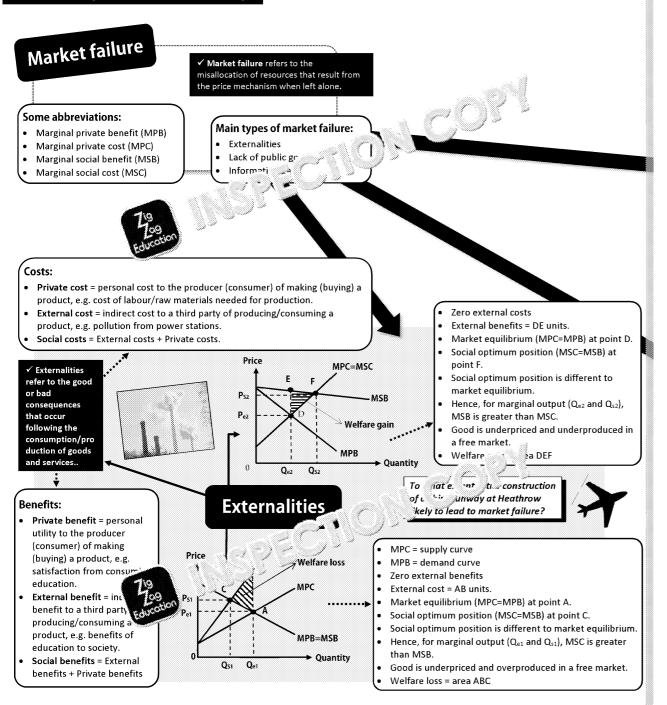


COPYRIGHT **PROTECTED**





Theme 1 (1.3: Market Failure)



COPYRIGHT PROTECTED

Theme 1 (1.4: Government Intervention) Providing informa Providing certain information can be r mandatory to facilitate Causes of government failure: Maximum price: making efficient cho • Distortion of price mechanism = misallocation of resources when · A maximum price is generally imposed the price mechanism does not operate freely. on goods with positive externalities. • Unintended consequences = state intervention can have added · Max. price is set below the market undesirable effects. equilibrium price, to encourage · Administrative costs, e.g. monitoring compliance of rules and consumption. collecting of fines, taxes, etc. Supply contracts a uei and it ids, • Asymmetric information = governments may lack all essential creatin your diagn or wishortage information necessary to make informed decisions. Conflicting priorities = can lead to incorrect or compromised Tradable po measures taking place to deal with market failure. • Permits • Firms ca Public goods: Gives inc. ✓ Government failure is a As free markets do not provide public goods, This met misallocation of resource governments raise taxes to provide them. market b from government interve correct market failure) ✓ Government intervention is any **Government intervention and failure** measure that is undertaken by the state to correct a market failure, e.g. taxation. Ad valorem tax = Taxing alcohol: levied as a · Alcohol has negative externalities. percentage of Consumer burden the good's price. · Placing an indirect tax equal to the Regulation: amount of the externality shifts the Enforcement of rules/laws supply curve to the left. This increases restricting consumption the price of alcohol, discouraging its and/or production of goods consumption. and service with negative This will decrease the negative , e.g. restrict the externality, while tax revenue can be used for improving a country's welfare. √of ₃arettes sold. Specific tax = \mathbf{Q}_2 **Ouantity** set amount of Producer burden **Possible** tax levied on a Possible good government failure

The government may under- or overestimate the

value of the externality, caused through excessive alcohol consumption. And so the socially optimal

· Potential risk of illegal trade to escape higher taxes.

people keep on drinking too much alcohol in spite

· Demand for alcohol tends to be very inelastic, so

Regulation:

· Can lead to a misallocation of

mechanism is not allowed to

Costly to monitor compliance.

resources, as the price

· Can create a black market.

function freely.

xio. ohoi:

of the tax.

Quantity

level will not be achieved.

Price Consumer burden

Producer burden

Po POSTATO PA

PROTECTED

COPYRIGHT