## Year 13, Term 2:

 How can I support at this point in the Sixth Form Journey?

## What have we done to support this Journey?

- Strategies you may have heard you son/daughter using:
Thinking Pathway
Mentoring
Mnemonics
Note taking: Linear and Mind
Mapping QLA
Purple Pen response Knowledge organisers

Flash cards

- Strategies have been taught and staff have been supporting the gradual process
- Mentoring are themed on academic rigour and how to balance.
- External providers have provided further thinking strategies.


## Ousedale <br> Sixth Form <br> How can you support you son or daughter?

- Understand the hours of study required per week, per subject
- It is estimated that students should contribute one hour of study per hour taught
- 16 hours of study per week.
- Effectively 11 hours should be done at home/twilight sessions. (2hours 15 minutes a night).


## Allow for time out

- Encourage part-time jobs at weekends...but
- Encourage physical activity
- Please contact us if you have any issues or concerns
- Get your son/daughter to be SMART
(SPECIFIC; MEASURED; ACHIEVEABLE GOALS; REALISITC;TIMING)


## What are Non-contacts and what are they Ousedale Sixth Form

 used for?> There has never been a mis-conception that this is a 'free'
> Non-Contacts are to study, complete or continue tasks set out of lessons
> This might be NEA
> A set task
> A presentation
> Essay response
> Organising a folder to support the above.

## Intervention Process

- At subject level
- If students are not on Track after a Progress review, then they will receive intervention from their teacher
- Session 6
- Additional support after a PR


## Revision to try in Social Science Subjects



| How? | advantages: | DISADVANTAGES | WHEN TO USE $T$ ? |
| :---: | :---: | :---: | :---: |
| Set up your paper in columns and laber appropriate headings. | Helps pull out most relevant information. | $\begin{aligned} & \text { Can be a hard } \\ & \text { system to use } \\ & \text { during a lecture. } \end{aligned}$ | If you'll be tested on facts and relationships. |
| Headings could be categories covered in the lecture. | reduces amount of writing- | Not a lot of room to write. | If content is heavy \& presented quickly. |
| Insert information (words phrases, main ideas, etc.) into appropriate categom. | Provides easy <br> review for <br> memorizing facts <br> and studying <br> comparis ons and | Need to know the content that will be covered beforehand. | If you want to get an overview of the whole lecture on one sheet of paper. |

## Strategies to use revising STEM

- Get your specification out!
- Students were given these at the beginning of Year 12
- RAG every section:
- Red: I need to start from the beginning
- Amber: I am missing the key points
- Green: I am confident and I want to complete as many exam questions as possible


## Strategies to use revising STEM

## Read the Question

What does that word mean?
and why a thing happens mechanisms and reasons. covers how Talk about (Hint: don't

Write a Describe
what happens, answer that covers and where it, when it happens, facts and chappens. Talk about don't confuse with "existics. (Hint:

## - Calculate

- Work out a number. You can use your calculator to help you. You may need to use an equation.


## Compare

Write about the similarities and differences between two things.

## Suggest

Think about what you've learnt and apply it to a new situation or context. Use what you have learnt to suggest sensible answers to the question.

## Predict

Look at some data and suggest a realistic value or outcome. You may use a calculator to help. Don't guess - look at trends in the data and use your knowledge of science. (Hint: don't confuse with "calculate" or "estimate"),

## Strategies to use revising STEM

Use the Marks

## Show Calculations

## Question Wording

## Strategies to use revising STEM

20:40 Rule

- 20 mins of revision on a specific topic
- Making a quick mindmap
- Reading someone else's notes and highlight what you're forgetting
- 40 mins of exam questions
- Stage 1: Use the notes to answer question
- Stage 2: Answer questions without your notes
- Stage 3: Answer, without notes and time yourself!


Sixth Form
Be Kind |Work Hard | Succeed Together

- When reading, ask WHAT, WHY, WHEN, HOW QUESTIONS about the material
- What am I reading? Is it appropriate to the task I am completing?
- Why am I reading this? What am I looking to find out?
- When am I reading? Is this is the best time? Is my concentration good enough?
- How am I reading? Am I scanning, or reading in detail?
- Am I understanding what I am reading? Is the information going in?
- Be selective when you are reading around a topic: are there any new publications?


## Professor John Dunlovsky's research

Published in Psychological Science in the Public Interest, a journal of the Association for Psychological Science (2013)

Only two of the 10 techniques examined turned out to be really effective :

1. Testing yourself
2. Spreading out your revision over time.
> "Students who can test themselves or try to retrieve material from their memory are going to learn that material better in the long run".

"Start by reading the text book then make flash cards of the critical concepts and test yourself".
"A century of research has shown that repeated testing works."

## Helping you memorise 5 simple steps

Step 1 - Highlight the key points

Step 2- Make a flash card/bullet point list/mind map

Step 3- Copy out flash card/bullet point list/mind map over and over about $\times 10$

Step 4- Test yourself- verbally or in writing- (if you cannot remember, go back to step 3 and repeat)

Step 5-Practice exam question in timed conditions with no notes.

## Step 1-Highlight key points on the revision guide <br> Ousedale Sixth Form

## The Heart

The heart is a muscular organ in the circulatory system. It beats automatically, pumping blood around the body to provide cells with oxygen and dissolved food for respiration. The blood removes carbon dioxide and water as waste products.


Don't highlight everything- just keywords and points
You are trying to condense the content

Step 2- Make a flash card/bullet point list/mind map using the highlighted text


| Use colours to |
| :---: |
| help key |
| concepts and |
| points |
| standout |
| These are |
| students' neat |
| notes that they |
| keep and use |
| to revisit and |
| test |
| themselves |

Step 3- Copy out flash card/bullet point list/mind map over and over- x5

Writing is better than simply reading when it comes to memorising.


Step 4- Test yourself- verbally or in writing- (if you cannot remember, go back and repeat to step 3)


## Step 5- Practice exam question in timed conditions with no notes



Revision and information learnt must be applied to the exam. Otherwise students will learn information but will no idea how this information actually helps them score marks in the examination.

Examiners want students to answer the exact question being asked of them.

## Step 5 Ousedale Step 5- Practice exam question in timed conditions © Sixth Form with no notes.



Revision and information learnt must be applied to the exam. Otherwise students will learn information but will no idea how this information actually helps them score marks in the examination.

Examiners want students to answer the exact question being asked of them.

4 Toby sees this article in a newspaper.
Heart disease is one of the most common causes of death in the UK.
Some scientists claim that there is a correlation between the amount of time spent watching TV each day and the risk of dying from heart disease.

They concluded that watching TV increases the risk of dying from heart disease.
(a) Toby draws a sketch graph to represent the correlation described in the article.


Discuss whether Toby's graph correctly represents the correlation described in the article.
$\qquad$
$\qquad$





 As ancenioc corng teno negosastog contuacs wh hil

On 24 A corl 2013 . vee 1,130 peopie wevere thed when the Ranana Plaza tectory complex

eight foocs were
Sne belevedman wass wet tuit ot 10






 - Alowing suppliers top plan lo ther Mave.



He USA and Europe hase reecmety show itsicosy



## Applying our answers

## Ocado venture with M\&S

Marks \& Spencer (M\&S) started to sell its popular food range online for the first time in September 2020, by forming a venture (also known as a joint venture) with Ocado. Ocado is a solely online supermarket that has well-established distribution networks and market-leading advanced technology.

M\&S funded its part of the $£ 1.5$ bn venture by selling $£ 600 \mathrm{~m}$ of shares to existing shareholders and by cutting shareholder dividends by $40 \%$.

M\&S stated that it had always believed M\&S branded food should be available online and combining with Ocado was a 'win-win' situation that would drive long-term growth of both businesses.

Following the announcement of the venture, Ocado's share price rose by $3 \%$.
The launch of the venture followed over a year of hard work and required senior managers from both businesses to work together to make it happen.

## M Market O Objectives P Product <br> P Performance S Stakeholders

Market
GROCERY INDUSTRY

Objectives
ORGANIC GROWTH - BEGIN SELLING ONLINE CASE STUDY REFERENCES 'LONG TERM GROWTH'
Product
LUXURY GOODS (YED: ‘SUPERIOR’)
HOME DELIVERY (CONVENIENCE)
VENTURE COST $£ 1.5$ BN - SIGNIFICANT RISK
Performance
M\&S FOOD RANGE IS ‘POPULAR’
OCADO'S TECHNOLOGY IS 'MARKET LEADING'
OCADO'S SHARE PRICE ROSE BY $3 \%$
Stakeholders
M\&S SHAREHOLDERS HAD DIVIDENDS CUT BY
40\%
MANAGERS FROM BOTH BUSINESSES
INVOLVED IN THE PLANNING

## Ocado venture with M\&S

Marks \& Spencer (M\&S) started to sell its popular food range online for the first time in September 2020, by forming a venture (also known as a joint venture) with Ocado. Ocado is a solely online supermarket that has well-established distribution networks and market-leading advanced technology.

M\&S funded its part of the $£ 1.5$ bn venture by selling $£ 600 \mathrm{~m}$ of shares to existing shareholders and by cutting shareholder dividends by $40 \%$.

M\&S stated that it had always believed M\&S branded food should be available online and combining with Ocado was a 'win-win' situation that would drive long-term growth of both businesses.

Following the announcement of the venture, Ocado's share price rose by $3 \%$.
The launch of the venture followed over a year of hard work and required senior managers from both businesses to work together to make it happen.


## SECTION C

## Answer ONE question from this section.

## Write your answer in the space provided.

## You are advised to spend $\mathbf{3 0}$ minutes on this section.

## EITHER

7 In 2015 a report by Public Health England recommended the imposition of a 20\% tax on the sale of soft drinks that contain high levels of sugar.

Evaluate the likely microeconomic effects of such a tax.
(Total for Question 7 = 25 marks)

OR
8 'Revenue maximisation is a more realistic business objective than profit maximisation for many businesses.'

To what extent do you agree with this statement? Refer to an industry of your choice in your answer.
(Total for Question 8 = $\mathbf{2 5}$ marks)


Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name,
- There are three sections in this question paper. Answer all questions from

Section A and Section B. Answer one question from Section C.

- Answer the questions in the spaces provided
there may be more space than you need.


## nformation

- The total mark for this paper is 100 .

The marks for each question are shown in brackets

- use this as a guide as to how much time to spend on each question.
- Calculators may be used.


## Advise

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.
1.2.9

Indirect taxes and subsidies
a) Supply and demand analysis, elasticities, and:

- the impact of indirect taxes on consumers, producers and government
- the incidence of indirect taxes on consumers and producers
- the impact of subsidies on consumers, producers and government
- the area that represents the producer subsidy and consumer subsidy


Y1 16) Indirect Tax - Full Market Impact
(7) EconplusDal
Subscribe
『 644 『
$\Rightarrow$ Share
$\equiv$ Youtube ${ }^{\text {6B }}$


Y1 29) Indirect Tax and Market Failure
(3)
EconplusDal
270K subscribers $\square$

Ousedale Sixth Form

## Economics

Overview Free Resources $\sim$ Shop $\vee$ CPD Courses Livestreams

## Indirect Taxes

Level: GCSE, AS, A-Level, IB, BTEC National, BTEC Tech Award
Board: AQA, Edexcel, OCR, IB, Eduqas, WJEC
Last updated 22 Oct 2019
Share: $f$ y
In this short revision video we cover the topic of indirect taxes.
The UK government raises over $£ 785$ billion a year in taxes - equivalent to around
$37 \%$ of GDP The majority of tax revenue comes from thre
$37 \%$ of GDP. The majority of tax revenue comes from three main sources: income
Iax, National Insurance cor tax revenues $\rho$ ) ard from indirect taxes and his is wa

| Knowledge, application and analysis |  |  |
| :---: | :---: | :---: |
| Level | Mark | Descriptor |
|  | 0 | A completely inaccurate response. |
| Level 1 | 1-4 | Displays isolated or imprecise knowledge and understanding of terms, concepts, theories and models. <br> Use of generic or irrelevant information or examples. Descriptive approach which has no chains of reasoning or links between causes and consequences. |
| Level 2 | 5-8 | Displays elements of knowledge and understanding of economic principles, concepts and theories. Applies economic ideas and relates them to economic problems in context, although does not focus on the broad elements of the question. <br> A narrow response or superficial, two stage chains of reasoning only. |
| Level 3 | 9-12 | Demonstrates accurate knowledge and understanding of the concepts, principles and models. <br> Ability to apply economic concepts and relate them directly to the broad elements of the question with evidence integrated into the answer. <br> Analysis is clear and coherent, although it may lack balance. Chains of reasoning are developed but the answer may lack balance. |
| Level 4 | 13-16 | Demonstrates precise knowledge and understanding of the concepts, principles and models. <br> Ability to link knowledge and understanding in context using appropriate examples. Analysis is relevant and focused with evidence fully and reliably integrated. <br> Economic ideas are carefully selected and applied appropriately to economic issues and problems. The answer demonstrates logical and coherent chains of reasoning. |
| Evaluation |  |  |
| Level | Mark | Descriptor |
|  | 0 | No evaluative comments. |
| Level 1 | 1-3 | Identification of generic evaluative comments without supporting evidence/reference to context. No evidence of a logical chain of reasoning. |
| Level 2 | 4-6 | Evidence of evaluation of alternative approaches which is unbalanced leading to unsubstantiated judgements. Evaluative comments with supporting evidence/reference to context and a partially-developed chain of reasoning. |
| Level 3 | 7-9 | Evaluative comments supported by relevant reasoning and appropriate reference to context. <br> Evaluation recognises different viewpoints and is critical of the evidence provided and/or the assumptions underlying the analysis enabling informed judgements to be made. | Descriptor

Displays isolated or imprecise knowledge and understanding ferms, concepts, theories and models.

Descriptive approach which has no chains of reasoning links between causes and consequences.
Displays elements of knowledge and understanding of
problems in context, although does not focus on the broad lements of the question.

解
Demonstrates accurate knowledge and understanding of the Ability to apply economic concepts and relate them directly to the broad elements of the question with evidence integrated

Analysis is clear and cohe ance.

Doncepts, principles ki mede
Ability to link knowledge and understanding in context using vidence fully and reliably integrated.
conomic ideas are carefully selected and applied ppropriately to economic issues and problems. The answer Descriptor Identification of generic evaluative comments without supporting evidence/reference to context. No evidence of a Evidence of evaluation of alternative approaches which unbalanced leading to unsubstantiated judgements. valua Evaluative comments supported by relevant reasoning and ppropriate reference to context. the evidence provided and/or the assumptions underlying the analysis enabling informed judgements to be made.

## 7

- Definition of a tax/ identification of an ad valorem tax.

Economic effects include:

- Increase in price and a reduction in demand for soft drinks which contain sugar / increase in demand for healthy drinks.
- Reduction of consumer surplus and producer surplus/ profits (may be shown on diagram)
- Tax acts to increase costs and may reduce profits.
- Increased investment in healthier drinks.
- Increase in tax revenue for government and impact on healthcare services and other services, for example dental care.
- Improvements in quality of healthcare among population fall in obesity, diabetes and heart disease. Reduced pressure on healthcare services.
- A diagram of an indirect tax may be awarded, depicting an increase in price, a decrease in quantity and the area of tax collected.
- A relevant externality diagram depicting a reduction in
welfare loss.
- A relevant cost and revenue diagram depicting the impact of an expenditure tax on firms.
- Increase in life expectancy/ the quality of life/ productivity in the workforce.
- Impact on employment in the soft drinks industry/impact on employment in substitute product markets.
- Impact on income distribution / regressive tax


## Evaluation 9

- Significance of price elasticity of demand in determining impact on price, quantity, employment and tax revenue
- Consideration of the impact on substitutes/ application of cross elasticity of demand e.g. switch to healthier substitutes.
- Consideration of the incidence of tax on consumers and
producers.
- Difficulty in imposing the tax - different soft drinks
products with different sugar content.
- Extent of hidden/informal market.
- Time factor - long term implications for government Consideration of and healhcare
- Consideration of price elasticity of supply e.g. the ability of producers to switch to healthier drinks.
he cor

Indicate which question you are answering by marking a cross in the box $\boxtimes$. If you change your mind, put a line through the box and then indicate your new question with a cross $\boxtimes$.

Chosen question number: Question 7 区
$\qquad$ Question 8 (x) chliciot
Wite your answer here: "concepts, principles black "Precision "Integrates"
An indirect tox "Modes" on appositive. It fut the the
papoced tax is $20 \%$ on the sis $g$ soot sins theses that it ir an al velamen tat - a bax teviale as a \% y the wine of the gath. (Level 1)"Themicopeconomici extent



The invasion of an se wreck worm per unit of soy dink of P $1 A$ witt
lead to an upend. Shift of the Supply carve from $S_{1}$ to $s+$ trow. (1) The force paid by consumes til indent from $P_{1}$ to $P_{2}$ and the quantity quality of soptinks of soft sink consumed will fall from
Q1 to Q2.3) Consumer Supple, conch He difference Gethlen what consumed are willing to pay and whet thy actnecilly page (4) will fall from He area $D P_{1} B$ to $D P_{2}($ (5) Poduces villa poll receive a pice
lagger poopotion, Camsing thier cevenve to goll. Thespole if demanl is price elutici, consumes Won't te budly eppsteo by He tax. To consolidate the hevel3 Level 3 Evaliaiton evaluotion; Indastic derand curve shouring For the government, Hey will resive faid revercue ai shawn by the chiegrom. This tox ceverve an be risfeined and only vied for Sorially benefinal proturtt, whim wand indesce.

Soriety's welpoe. As vell "as nij, the governmet will bexpit from not haviny to spens as name on healtheave in He h3 fatise. This is Gecrave soft drins canse anony ilhene bo KAA a cedmbion in the quabity corinco of them vill celue the amant of cots of ilherer i.i.e dinbeter, which desame He amant the povirnhat vill have is spend on bertten


## in your answers.



Instructions

- Use black ink or ball-point pen.
- Fill in the boxes at the top of this page with your name,
centre number and candidate number.
- There are three sections in this question paper. Answer all questions from

Section A and Section B. Answer one question from Section C.

- Answer the questions in the spaces provided
- there may be more space than you need.


## Information

- The total mark for this paper is 100 .
- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.
- Calculators may be used


## Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

1 Fuel duty is an excise tax imposed on the sale of petrol, included in the price paid by consumers, set at 58 pence per litre.
(Source: https://www.gov.uk/tax-on-shopping/fuel-duty)
(a) Draw a supply and demand diagram to show the incidence of a specific petrol tax on consumers and producers.
(b) The indirect tax on fuel is increased in a market in which the price elasticity of demand is -0.1 . Which one of the following is the most likely effect on consumer and producer surplus?
$\square$ A Consumer surplus and producer surplus both decrease
$\square$ B Consumer surplus and producer surplus both increase
$\square$ C Consumer surplus decreases and producer surplus increases
$\square$ D Consumer surplus increases and producer surplus decreases - It has a wigh lobent heat of vapasiation thir meav a
lage ameint of evergy is requed to evapante woler is whter can be used for sweating of a homeestabic cencol of body tempature. When woter evapextes, it wes heat enengy and cois the sisgore of the shin.
Water hoi a kigh be perific hert capacity. A large ameut (2) of erengy is needed to change the temperatwe of waker. This which is usechl ser mantaining stable aquatic environments.
${ }^{\text {"Water is polar: has hydrager bands betowen molecules. This causes }}$ betweer water
cohatinAmdrumber rowater can move de a centinvour columen
dering tonspintien in plants.

- Water is a univessal solvent which dissolves a lage range (1) Subrtances is water acks as a suitable trans part madiun eng in bleed and tisme guid, it Substances disrolve in woter and -Wheready an can then be trasported around the body. - Water has surgace tensian due to hydrogen bonding is it resifte external seres. thir means small insects such Is pend steaters can walu on and live or the suggoce of woter.

7402/2, summer 2019
A population of fruit flies contained $64 \%$ grey-bodied flies. Use the Hardy-Weinberg equation to calculate the percentage of flies heterozygous for gene $\mathbf{G}$.

$$
\begin{align*}
p+q & =1 \\
p^{2}+2 p q+q^{2} & =1 \\
p^{2}+2 p q & =0.64 \\
q^{2} & =0.36 \quad 2 p q=0.48 \\
q & =0.6 \\
\text { Answer }= & =0.4
\end{align*}
$$

The student correctly identified that the value of $64 \%$ relates to $(p+2 p q)$ in the Hardy-Weinberg equation. The student then converted this percentage to a frequency to find the value of $q$, and then of $p$. As a result, the student correctly found the value of $2 p q$ from the Hardy-Weinberg formula and converted this frequency back to a percentage.

Student A

－－回
0.0017
$30820203(0.028)-2(0.0039)$
Amount of $\mathrm{B} \quad 0.0017^{-1}$ Amountafc $0.0762=$ 표 mol
Amount of D 0.0017 － mol
$\kappa_{\text {c }}$
an Conc of $1.05 \times 0.5$
$\begin{aligned} c & =0.05 \times 0.5 \\ & =0.5 \mathrm{mim}^{-3}\end{aligned}$
$" B=0.21 \times 0.5$
$=0.105 \mathrm{madm}^{-2}$
＂$d=0.076 \times 0.5$
$=0.038$


$\qquad$
$c_{C}=0.0 \bar{x} \times\left(\frac{5.00 \times 10^{2}}{\sqrt{1000}}\right)$
$116=\frac{(0.525)^{3}[0.038]}{(A]^{2}[0.105]}$ $[A]^{2}=4,514547$
$A=5 C$
$A=0.02124$
一圆
$=0.0^{2}$
Concentration of $\mathrm{A} \quad 0.02$ mol dm ${ }^{-3}$

Commentary
This answer has only scored the first mark for 0.0064 mol in the first 5 mark section． In the second section the expression is correct but the units are wrong．（If the expression used（）brackets this would have been penalised．）
In the third section the student has incorrectly multiplied by the volume so loses M2． The M1 is scored since the student uses the incorrect figures that are calculated，substitutes them into the expression and rearranges correctly，（M1 is rearrangement）as the value of $\mathrm{A}^{2}$ is correct from their figures．The answer should be to the appropriate number of significant figures and in this question that is 3 sig figs as per data given．The student has only shown 1 sig fig．
$1+1+1=3$ marks

I am comfortable when I have a case study
Use the exam question as a starting point
Use resources* to revisit the content
I know what I need to know from the specification
I know how to structure the questions and what assessment criteria I need to show and I have exemplars/guides

I know about how else this might be assessed

## A successful student will:

$$
\begin{aligned}
& \text { use } 2 \text { hours per } \\
& \text { Ustudy }
\end{aligned}
$$



$$
\begin{aligned}
& \text { Exercise regularly } \\
& \text { Have/maintain } \\
& \text { outside interests }
\end{aligned}
$$ night to study

Apply strategies which suit you

