

Mark Scheme (Results)

October 2023

Pearson Edexcel International

Advanced Subsidiary

In Economics (WEC11)

Unit 1: Markets in action

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October 2023
Question Paper Log Number P75610A
Publications Code WEC11_01_MS_2310
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Section A

Question	Quantitative skills assessed	Answer	Mark
1	QS9 : Interpret, apply and	The only correct answer is D	(1)
	analyse information in		
	written, graphical, tabular	A is not correct because this	
	and numerical forms	illustrates that the market is	
		functioning correctly B is not correct because this is an	
		example of market failure	
		C is not correct because this is	
		government intervention succeeding	
		in eliminating the market failure	
2	QS9: Interpret, apply and	The only correct answer is A	
	analyse information in		(1)
	written, graphical, tabular	B is not correct because increased	
	and numerical forms	unemployment means that the	
		economy operates further inside the PPF	
		C is not correct because an	
		improvement in technology would	
		result in the PPF shifting outwards	
		D is not correct because an increase	
		in immigration will result in an	
		increase in productive potential	
3	QS8 : Make calculations of	The only correct answer is C	
	elasticity and interpret the		(1)
	result	A is not correct because the PED	
	QS9 : Interpret, apply and	value for diesel is the only type of	
	analyse information in	car whose demand is inelastic	
	written, graphical, tabular	B is not correct because the demand	
	and numerical forms	for petrol and electric cars is elastic	
		D is not correct because the demand	
		for electric cars is elastic so	
		increasing the price will result in a	
4	OSA: Construct and	decrease in total revenue The only correct answer is D	
4	QS4 : Construct and interpret a range of	The only correct answer is D	(1)
	standard graphical forms	A is not correct because the market	(-)
	QS9 : Interpret, apply and	equilibrium quantity is at Q ₁	
	analyse information in	B is not correct because the social	
	written, graphical, tabular and	optimum quantity is at Q ₂	
	numerical forms	C is not correct because the welfare	
		gain area is equal to the area UWX	
5	QS9: Interpret, apply and	The only correct answer is C	
	analyse information in		(1)
	written, graphical, tabular	A is not correct because inertia is	
	and numerical forms	about consumers finding that the	
		effort to secure a better deal is too	
		great	
		B is not correct because the free-	
		rider problem is associated with	
		public goods	
		D is not correct because a market	
		bubble emerges when the price of an	
		asset rises above its true value	

6	QS4 : Construct and interpret a range of	The only correct answer is A	(1)
	standard graphical forms QS8: Make calculations of elasticity and interpret the result QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms	B is not correct because an increase in the price of one complement would result in a reduction in the quantity demanded for the other complement C is not correct because a change in the price of one good causes a change in demand for the other good D is not correct because there is no information on income	

Section B

Question	Draw a diagram to illustrate the likely impact of this change in real incomes on the equilibrium price and quantity for domestic holidays in Laos. Answer	Mark
7	Knowledge 1, Application 3	
	Quantitative skills assessed: QS4: Construct and interpret a range of standard graphical forms QS8: Make calculations of elasticity and interpret the result. QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	
	Knowledge	
	1 mark for showing knowledge on diagramOriginal supply and demand (1)	
	 Application Up to 3 marks for the following information included on diagram: Original equilibrium price and quantity (1) Demand shifted to the left (1) New equilibrium price and quantity (1) 	
	Price per domestic holiday, \$	
		(4)

Question	With reference to switching banks, explain the difference between 'herding' and 'inertia'.	Mark
	Answer	
8	Knowledge 2, Application 2	
	Quantitative skills assessed:	
	QS9 : Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	
	Knowledge	
	1 mark for understanding of `herding'	
	 Where consumers make choices based on the decisions of others /friends/family (1) 	
	1 mark for understanding of 'inertia'	
	 Where people think the effort of switching is too great / are too lazy to switch (1) 	
	Application	
	2 marks for reference to data	
	 Herding - 39% use the same bank as their parents (1) Inertia - 13% said that switching was too much time and effort (1) 	
		(4)

Question	With reference to Thailand, explain one role of financial markets.	Mark
9	Answer	
	Knowledge 1, Application 1, Analysis 2	
	QS9 : Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	
	Knowledge	
	1 mark for one role e.g.:	
	to facilitate saving/	
	 to make funds available to businesses/governments/ individuals/ 	
	 to facilitate the exchange of goods and services/ 	
	 to provide forward markets in commodities and currencies/ 	
	to provide a market for equities	
	 to provide a market for buyers and sellers to exchange financial goods and services (1K) 	
	Application	
	1 mark for applying to stem e.g.:	
	 During 2022 in Thailand 10% of income was saved/ Banks made loans to the private sector of THB 4 809bn in October 2022 (1AP) 	
	Analysis	
	up to 2 marks for linked expansion, e.g.	
	 It allows individuals to save up for a later purchase (1AN) such as a deposit for a house (1AN) It allows firms to borrow money (1AN) to make investments in 	
	new capital goods/ help the business to grow (1AN)	
	 Consumers can pay for goods and services (1AN) and the 	
	funds are transferred to the business / using credit cards where funds are transferred from the credit card company to the business (1AN)	
	 It allows businesses to make purchases for future deliveries (1AN) at a set price in the future (1AN) 	
	It enables firms to sell shares (1AN) to raise for finance for expansion (1AN)	(4)

Question	Ceteris paribus, calculate the price elasticity of supply for cocoa. Show your working. Answer	Mark
10	Knowledge 1, Application 3 Quantitative skills assessed: QS8: Make calculations of elasticity and interpret the result. QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms Knowledge 1 mark for definition/the formula for price elasticity of supply % change in quantity supplied % change in price (1)	
	Application Up to 3 marks for calculations: • Change in quantity 5 242 000 - 4 741 000 = 501 000 Change in quantity ÷ original quantity x 100 501 000 ÷ 4 741 000 x 100= 10.57% (10.5673908) (1)	
	 Change in price 2 770 - 2 131 = 639 Change in price ÷ original price x 100 639 ÷ 2 131 x 100= 29.99% (29.9859221) (1) % change in quantity supplied 	
	% change in price 10.57 ÷ 29.99 = 0.35 (1) NB: if correct answer (e.g. 0.35) is given, award full marks regardless of working. Accept reasonable rounding from full calculation Award 3 marks if percentage sign is added to the correct PES value	
	Tuiuc	(4)

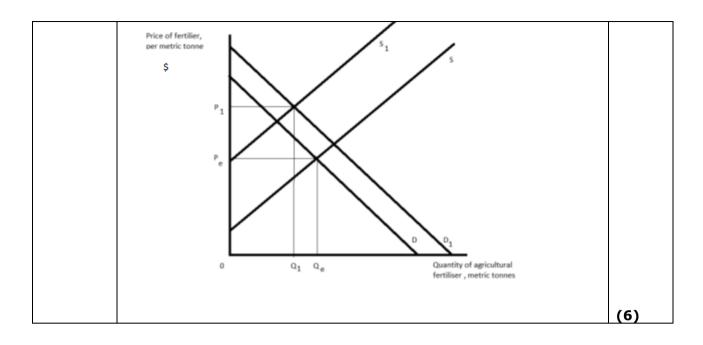
	Explain the impact of the introduction of this indirect tax on the market for paperback books sold online in Vietnam. Illustrate your answer with an appropriate diagram.	Mark
11	Answer Knowledge 1, Application 1, Analysis 2 Quantitative skills assessed: QS4: Construct and interpret a range of standard graphical forms QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	
	Knowledge1 mark for definition of indirect tax e.g.:tax on expenditure/spending/goods and services (1)	
	Application 1 mark for pivoting supply to the left (1)	
	Price per paperback book sold online A Page Quantity of paperbacks sold online	
	Analysis Up to 2 marks for explaining or showing diagrammatically an impact e.g.:	
	 Price rises/ from Pe to P1 (1) Quantity falls/ from Qe to Q1 (1) Government revenue is BFGP1 (1) Producer incidence is HFGPe (1) Consumer incidence is BHPeP1 (1) Producer surplus decreases (1) from CEPe to BEP1 (1) Consumer surplus decreases (1) by BCPeP1 (1)/ ACPe to ABP1 (1) OR Consumer surplus ACPe to ABP1 (1+1) 	(4)

Section C

Question	Define the term 'tradeable pollution permit scheme.' (Extract B, line 16) Answer	Mark
12 (a)	 Knowledge 2 Up to 2 marks for defining 'tradeable pollution permit scheme.' e.g.: Where firms are permitted/allowed to pollute up to a certain level (1) Any excess permits can be sold/firms can buy additional permits when needed (1) Fertiliser manufacturers are part of the European Union's tradeable pollution permit scheme (1) 	(2)

Question	With reference to Extract B, explain whether the supply of phosphate rock is likely to be price elastic or price inelastic. Answer	Mark
12 (b)	QS8: Make calculations of elasticity and interpret the result. QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.	
	Knowledge 2 Application 2	
	 Knowledge 1 mark for identifying the correct price elasticity: Supply is price inelastic (1) 	
	 1 mark for understanding price inelastic supply A change in price results in a less than proportionate change in quantity supplied/ The PES is between 0 and 1/ Diagram showing inelastic supply/ Cannot respond quickly/in the short run/difficult to respond to changes in price (1) 	
	Application Up to 2 marks for application:	
	 85% of the world supply comes from just five countries (1) Morocco produces 70% of total production (1) It is a finite resource/limited in supply (1) 	(4)

Ques tion	With reference to Figure 1 and Extract A, analyse one demand factor and one supply factor that caused the price of fertiliser to increase between January 2021 and April 2022.	Mark
	Illustrate your answer with a supply and demand diagram.	
	Answer	
12 (c)	 Knowledge 2, Application 2, Analysis 2 Quantitative skills assessed: QS4: Construct and interpret a range of standard graphical forms QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms. Knowledge Up to 2 marks for the diagram showing: Original supply, demand and equilibrium price and quantity (1) New equilibrium price and quantity having correctly shifted both supply and demand (1) Analysis 1 mark for demand factor e.g.: Demand for fertiliser increased by 6.3%/ Governments paying subsidies to farmers during the global health crisis/ Higher crop prices in 2021 provided an incentive for farmers to increase the quantity of crops that they grew (1) 1 mark for supply factor e.g.: Poor weather caused some factories that manufacture fertiliser to shut down/ Winter storms and Hurricane Ida disrupted production in the USA/ Costs of production also rose as a result of a significant increase in the world price of gas (1) Application Up to 2 marks for diagram or reference to Figure 2.: Shift demand to the right (1) 	
	 Shift supply to the left (1) January 2021 price per tonne was just above \$400 increasing to approximately \$950 in April 2022 (1) 	



Question	With reference to Extract C, examine two likely effects of the subsidies paid by Canada's Government to farmers who use more organic farming methods.	Mark
	Answer	
12(d)	QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms Knowledge 2, Application 2, Analysis 2, Evaluation 2 Knowledge and Analysis Up to 2 marks for identifying two effects and up to 2 marks for linked explanations, e.g.: • The subsidy should reduce farmers' reliance on fertiliser (1K) helping reduce the environmental damage (1AN) • Farmers will research new production methods (1K) that will use less fertiliser to help reduce carbon emissions (1AN) • Farmers will be encouraged to adopt more organic production methods (1K) as the subsidy reduces costs of production of these methods (1AN) • Output may fall (1K) as fertiliser use is discouraged (1AN) • Increased organic output (1K) may result in increased employment in the sector (1AN) • Job losses in the fertiliser industry (1K) as the quantity of fertiliser consumed falls (1AN) • Reduces use of fertiliser (1K) helping to reduce external costs (1AN) • Lower organic food prices (1K) will result in increased consumer surplus (1AN) • Two marks for diagram showing the correct shift in supply (1K) and the impact of the subsidy on equilibrium price/quantity (1AN)	
	 Application Up to 2 marks for application to Extract C Fertilisers have accounted for 10% of Canada's greenhouse gas emissions since 1990 (1AP) To reach its 2030 greenhouse gas emissions target it needs to reduce its fertiliser use (1AP) CA\$ 750 million to farmers over ten years to use more organic farming methods to achieve this target (1AP) Evaluation Up to 2 marks for evaluative comments (2+0 or 1+1), e.g.: CA\$ 750m subsidy may be too small to have a substantial impact on changing farmers' behaviour (1+1) Subsidies will have an opportunity cost as the funds cannot be used to pay for e.g. healthcare or education (1+1) Farmers may become dependent on the subsidies resulting in a need to pay them for a long time (1+1) 	(8)

Question	With reference to Extract B, discuss the external costs associated with the
	production and the use of fertiliser.
	Illustrate your answer with an appropriate diagram.
	Indicative content

12(e) Indicative content guidance

Answers must be credited by using the level descriptors (below) in line with the general marking guidance.

The indicative content below exemplifies some of the points that candidates may make but this does not imply that any of these must be included. Other relevant points must also be credited.

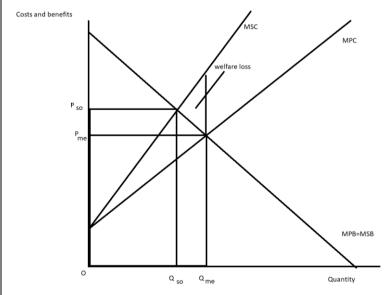
Ouantitative skills assessed

QS4: Construct and interpret a range of standard graphical forms

QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.

Knowledge, Application and Analysis (8 marks) - indicative content

- External costs- negative impact on third parties
- Between 1960 and 2019 there was a ten-fold increase in the use of fertiliser
- The production of fertiliser requires substantial use of non-renewable resources such as gas and coal. It is responsible for 1% of all global energy use and 1.4% of all carbon emissions this leads to the greenhouse effect and global warming- increasing the risk of flooding/droughts so affecting income of farmers
- Fertiliser is produced by applying acids to phosphate rock these acids may leak into the environment causing illness and additional health costs
- The fertilisers that are used on farmland are often washed into rivers and lakes. This causes algae to develop and oxygen levels to decrease, resulting in a decline in fish stocks - impacting those in the fishing industry who will find it more difficult to find fish



- Diagram showing MSC above MPC
- Q_{me} above Q_{so} shows overproduction
- Pme below Pso shows price paid is below social optimum
- Welfare loss triangle due to third party impacts

G	Mark	Descriptor
	0	No rewardable material

of economic terms, principles, concepts, theories and models. Use of generic material or irrelevant information or inappropriate examples. Descriptive approach, which has no chains of reasoning. Level 2			
examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence. Evaluation (6 marks) – indicative content • Magnitude- a wide range of significant external costs • 1.4% of total carbon emissions- small relative to other sectors/a significan impact • Fertiliser use has helped increase crop production four-fold- increasing revenues for crop growers and manufacturers • Fertiliser production results in external benefits in terms of increased food supply and employment opportunities • Difficult to measure the size/value of external costs • Production of phosphate rock is focused mainly in 5 countries with 70% produced in Morocco so the external costs will be concentrated in these countries • Crop production using fertiliser is used by farmers globally and therefore has a global impact • The European Union's tradeable pollution permit scheme applies to fertiliser manufacturers – if the EU reduces the number of permits available this will reduce production of fertiliser and its associated external costs Level Mark Descriptor 0 No rewardable material. Level 1 1-2 Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning. Level 2 3-4 Evidence of evaluation of alternative approaches. Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.	Level 2	4-6	Use of generic material or irrelevant information or inappropriate examples. Descriptive approach, which has no chains of reasoning. Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted. Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models.
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Appropriate reference to evidence/context. Evaluation is supported by a logical chain of reasoning.	Level 3	5-6	evidence. Appropriate reference to evidence/context.

Section D

Ouestion

In the UK the maximum price for a unit of electricity for domestic consumers was £0.28 per kilowatt hour in September 2022. This was increased by the Government to £0.34 per kilowatt hour in October 2022.

Evaluate the microeconomic effects of an increase in the maximum price of electricity. Indicative content

13

Quantitative skills assessed

QS4: Construct and interpret a range of standard graphical forms

QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.

Indicative content guidance

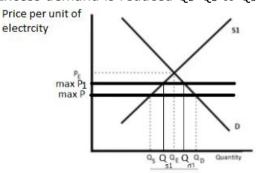
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Knowledge, application and analysis (12 marks) - indicative content

Increase the maximum price

- Maximum price is a price ceiling above which firms cannot charge
- Maximum price set below the equilibrium price
- Maximum price is increased from max P to max P₁
- Maximum price for a unit of electricity was £0.28 per kilowatt hour in September 2022. This was increased by the Government to £0.34 per kilowatt hour in October 2022
- Makes the product less affordable than it was but more affordable than equilibrium price
- Consumers have less income available for consuming other goods and services
- Leads to a contraction of demand Q_D to Q_{d1}
- Results in lower quantity demanded compared to lower maximum price
- Leads to an extension of supply- Q_s to Q_{s1}
- Results in higher quantity supplied compared to lower maximum price
- Creates a disequilibrium
- Excess demand is reduced Q_D-Q_S to Q_{d1}-Q_{s1}



- The lower maximum price may have resulted in some electricity companies shutting down- the higher maximum price should result in fewer firms shutting down
- This was due to reduced profitability and loss making of smaller firms in the market before the maximum price was increased
- Consumers are likely to buy more energy saving devices e.g. electric blankets and to invest in home insulation

		ed electricity consumption would result in lower electricity generation and dievels of external costs
Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models. Use of generic material or irrelevant information or inappropriate examples. Descriptive approach which has no chains of reasoning.
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.
Level 3	7-9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Analysis is clear and coherent. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted.
Level 4	10-12	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to link knowledge and understanding in context, using appropriate examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.
	•	Magnitude of the increase in maximum price is large- so significant impact Electricity companies are more likely to survive Maximum price of electricity affects domestic consumers and not businesses Price elasticity of demand- if inelastic there will be a smaller impact on demand Volatile prices so the price could fall below the maximum price Risk of government failure- government intervention leads to net welfare loss: o information gaps result in wrong level of maximum price unintended consequences excessive administrative costs Overall impact depends on how much real incomes change Consumers may not pay more as they may reduce their usage of electricity
Level	Mark	Descriptor
LCVCI	0	No rewardable material.
Level 1	1-3	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.

Level 2	4-6	Evidence of evaluation of alternative approaches. Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7-8	Evaluation recognises different viewpoints and/or is critical of the evidence, leading to an informed judgement. Appropriate reference to evidence/context. Evaluation is supported by a logical chain of reasoning.

Question

Many consumers do not buy travel insurance before going on holiday abroad despite substantial costs if they need medical care.

Many car drivers do not provide complete and accurate information to car insurance companies when insuring their cars.

Evaluate the microeconomic effects of imperfect information on insurance markets.

Indicative content

14

Ouantitative skills assessed

QS4: Construct and interpret a range of standard graphical forms

QS9: Interpret, apply and analyse information in written, graphical, tabular and numerical forms.

Indicative content guidance

Answers must be credited by using the level descriptors (below) in line with the general marking guidance.

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Knowledge, application and analysis (12 marks) - indicative content

- Information failure- where economic agents lack the information to make optimal decisions
- Asymmetric information- where economic agents have different levels of information
- Market failure- where the market leads to an inefficient allocation of resources
- Many consumers holiday abroad without travel insurance despite substantial costs when they need medical care
 e.g. many are unaware of the possible large costs if they need to be returned home in an emergency
- This results in underconsumption of travel insurance
- When taking out health insurance policies many consumers fail to declare all information. This means the policy offered does not take account of the risks for the individual- it means that the insurance company may end up paying out more in claims
- Incomplete information may result in claims being rejected
- For example, on medical or health insurance they may not declare they smoke or drink alcohol regularly which increases the risk of a claim
- Car drivers don't tell the whole truth on applications- meaning that the driver is a higher risk and therefore more likely to claim
- When making claims the consumer may leave information out that would result in a lower or no payout- for example, they left the car or house unlocked or without the security alarm set
- Imperfect information results in insurance companies making larger payouts increasing costs
- These higher costs result in consumers having higher premiums / paying more for their insurance policy

Level	Mark	Descriptor
	0	No rewardable material.

Level 1	1-3	Displays isolated, superficial or imprecise knowledge and understanding of economic terms, principles, concepts, theories and models. Use of generic material or irrelevant information or inappropriate examples. Descriptive approach, which has no chains of reasoning.
Level 2	4-6	Displays elements of knowledge and understanding of economic terms, principles, concepts, theories and models. Limited application of knowledge and understanding to economic problems in context. A narrow response or superficial, only two-stage chains of reasoning in terms of cause and/or consequence.
Level 3	7-9	Demonstrates accurate knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to apply knowledge and understanding to some elements of the question. Some evidence and contextual references are evident in the answer. Analysis is clear and coherent. Chains of reasoning in terms of cause and/or consequence are evident but they may not be developed fully or some stages are omitted.
Level 4	10-12	Demonstrates accurate and precise knowledge and understanding of economic terms, principles, concepts, theories and models. Ability to link knowledge and understanding in context using appropriate examples which are fully integrated to address the broad elements of the question. Analysis is clear, coherent, relevant and focused. The answer demonstrates logical and multi-stage chains of reasoning in terms of cause and/or consequence.
	evalua • •	Market failure may be reduced as the insurance company can gain permission to find medical records/ contact doctor Information can be provided about costs of medical evacuation so consumers can take account of these costs Consumers may have the information but with the chance of it happening being so small they calculate that is a risk worth taking not having the insurance Consumers not taking out medical/ health insurance may be because they cannot afford the premium The internet may help close the information gap that results in the market failure Market failure in insurance markets may be the result of irrational behaviour rather than the result of imperfect information (habitual behaviour, inertia, herding and calculation problems) Insurance companies may share information on consumers who may say they have not claimed in 5 years. This can be checked by the insurance company
Level	Mark	Descriptor
	0	No rewardable material.
Level 1	1-3	Identification of generic evaluative comments. No supporting evidence/reference to context. No evidence of a logical chain of reasoning.
Level 2	4-6	Evidence of evaluation of alternative approaches.
1		

		Some supporting evidence/reference to context. Evaluation is supported by a partially-developed chain of reasoning.
Level 3	7–8	Evaluation recognises different viewpoints and/or is critical of the evidence, leading to an informed judgement.
		Appropriate reference to evidence/context.
		Evaluation is supported by a logical chain of reasoning.