



GCSE (9–1) Physics B (Twenty First Century Science) J259/02 Depth in physics (Foundation Tier)

Sample Question Paper



Date – Morning/Afternoon

Version 2

Time allowed: 1 hour 45 minutes



You may use:

• a scientific or graphical calculator



First name	
Last name	
Centre number	Candidate number

INSTRUCTIONS

- Use black ink. You may use an HB pencil for graphs and diagrams.
- Complete the boxes above with your name, centre number and candidate number.
- Answer **all** the questions.
- Write your answer to each question in the space provided.
- Additional paper may be used if required but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION

- The total mark for this paper is **90**.
- The marks for each question are shown in brackets [].
- Quality of extended responses will be assessed in questions marked with an asterisk (*).
- This document consists of 20 pages.

Answer all the questions.

1 Li is experimenting with water waves.

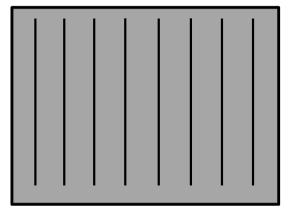
He uses a wave generator to create waves at different wavelengths and frequencies.

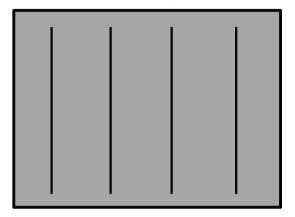
The diagrams show the waves he produced.

Each line represents a wave viewed from above.

First waves produced

Second waves produced

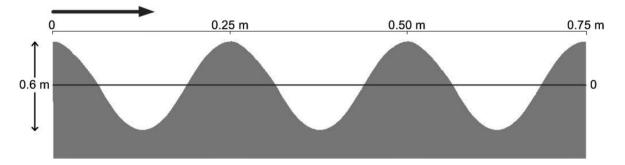




(a) Fill in the gaps to explain how the wave has changed.

(i)	The wavelength of the second wave produced is than the first wave.	[1]
(ii)	The frequency of the second wave produced is than the first wave.	[1]

(b) The diagram shows the second wave produced but seen from the side.



Using the diagram, calculate the amplitude and the wavelength of the water waves.

Show your working.

Amplitude =m

Wavelength = m [3]

(c) (i) Li counts the waves as they pass in front of him.

He finds that 5 waves pass him in 10 seconds.

Calculate the frequency of the wave.

(ii) Using your answers to parts (b) and (c)(i), calculate the speed of the wave.

In your answer use the equation:

wave speed = frequency × wavelength

Speed = m/s [2]

4

2 Amaya draws a diagram of parts of the electromagnetic spectrum.

(a) She misses out some parts.

	X-rays	ultraviolet	visible light		microwaves				
smallest -						→ biggest			
	(i) Add t	(i) Add the missing parts of the spectrum to the diagram above.							
	(ii) In the	e diagram, one	property is inc	reasing from	left to right.				
	Put a	(ring) aroun	d this property	in the list belo	W.				
	energ	gy frequ	lency wa	avelength	wave speed	[1]			
(b)	Different µ purposes.		ectromagnetic s	Different parts of the electromagnetic spectrum are used fordifferent purposes.					
	Draw lines to link each part of the electromagnetic spectrum to its use.								
	Draw lines	s to link each	part of the ele	ctromagnetic	spectrum to its	s use .			
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- **3** This question is about astronomy.
 - (a) The statements below are all about the planets in our solar system.

Put a tick (\checkmark) in the correct box after each statement.

	True	False	
All planets are the same size.			
The Sun's gravity keeps all the planets in their orbits.			[2]

- (b) The following statements describe how the solar system formed.
 - 1 and denser areas of the dust cloud condensed into the planets.
 - 2 was pulled together by gravity
 - 3 A large cloud of dust and gas in space
 - 4 when fusion reactions started, and the Sun was born
 - 5 the gas was compressed and heated up
 - 6 until the centre part had a temperature of millions of degrees

The statements are **not** in the correct order.

In the spaces below, write down the correct order of the statements. Two have been done for you.

3			1	[4]
	 	 		[*]

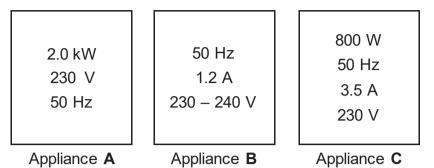
(c)* In the 1920s, astronomer Edwin Hubble made observations of the light coming from many galaxies.

Hubbles observations made other scientists accept a new theory about how the Universe began.

Describe what galaxies are, and how Hubble's observations of red shift led to the idea of an expanding Universe.

 [6]

- This question is about energy transfers in electrical appliances.
 - (a) The plates on the back of three electrical appliances are shown below.



(i) Appliance A is switched on for 195 minutes.

Calculate the number of kWh of energy transferred.

In your answer use the equation:

energy transferred = power × time

Energy transferred = kWh [3]

(ii) Calculate which appliance (**A**, **B** or **C**) takes the biggest electric current from the mains power supply.

Appliance =[4]

4

(b) A householder heats water with an electric heater.

The water is then stored in a large storage tank until it is needed.

If the water is **not** used for some hours, it will cool down and the electric heater must be put on again.

Suggest and explain **one** way in which the householder can reduce the energy wasted in this way, and so save money on the electricity bills.

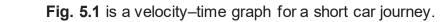
[2]

(c) The cost of electricity is 16 p per kWh.

Appliance C transfers 3.2 kWh when left on for 4 hrs.

Calculate the cost in pounds.

Cost = £.....[2]



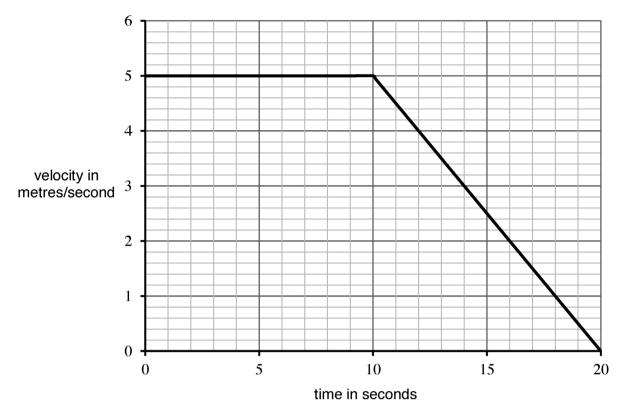


Fig. 5.1

(a) Use the graph in Fig. 5.1 to describe the car journey in words.

[3]

(b) Calculate the total distance moved by the car in the 20 seconds.

Show your working clearly.

Total distance moved = m [4]

5

- (c) A second car starts a journey at the same time as the car shown on the graph in Fig. 5.1.
 - The car accelerates uniformly from rest at a rate of 0.4 m/s² for 10 seconds.
 - It then decelerates to rest over the next 8 seconds.
 - (i) Calculate the change in velocity of the second car in the first 10 seconds.

In your answer use the equation:

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acceleration = change in velocity ÷ time.
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Change in velocity = m/s [3]

(ii) Draw a line on the graph in Fig. 5.1 to show the journey of the second car. [3]

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- The diagram shows a car moving at a steady speed along a straight, flat road.

Acceleration =m/s² [3]

6

Calculate the acceleration of the car. (Resultant force = 800 N)

(ii) The mass of car and driver = 1 000 kg

(iii) The car travels a distance of 830 m, when the force of 800 N is applied.

Calculate the work done by the car engine.

In your answer use the equation:

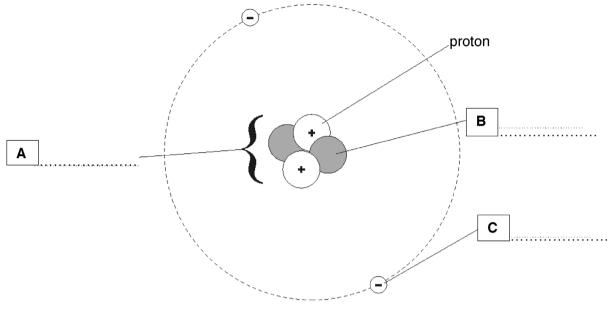
work done = force × distance.

Work done =J [2]

(a) The diagram shows a simple model of the atom.

One part of the atom has been labelled.

Label the other three parts (A, B and C).



[3]

7

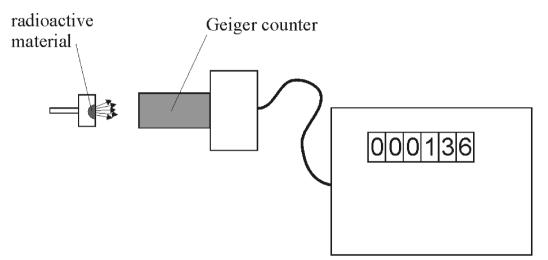
(b) Radioactive materials give off three types of radiation:

alpha particles beta particles gamma rays

These have different penetrating powers.

You are given a sample of radioactive material which gives out one of the three types of radiation, but you do not know which one.

You also have a Geiger counter to detect radiation, as shown below.



You place a thin sheet of paper between the radioactive material and the Geiger counter.

You then replace the paper with a sheet of aluminium metal about 2 mm thick.

Explain how the results tell you which sort of radiation is given out by the material.

.....

(c) Identify one risk from collecting the results from the experiment in (b).

Explain how you would complete the experiment to reduce this risk.

 15

8* Two people are discussing plans to build a nuclear power station near their town.



Mia I think a nuclear power station would be a good thing.

It's much better than burning coal or oil, and it will bring work to the area. Sundip

I disagree with you. Renewable ways of providing energy would be much better.

I'm also worried about the dangerous nuclear waste produced.



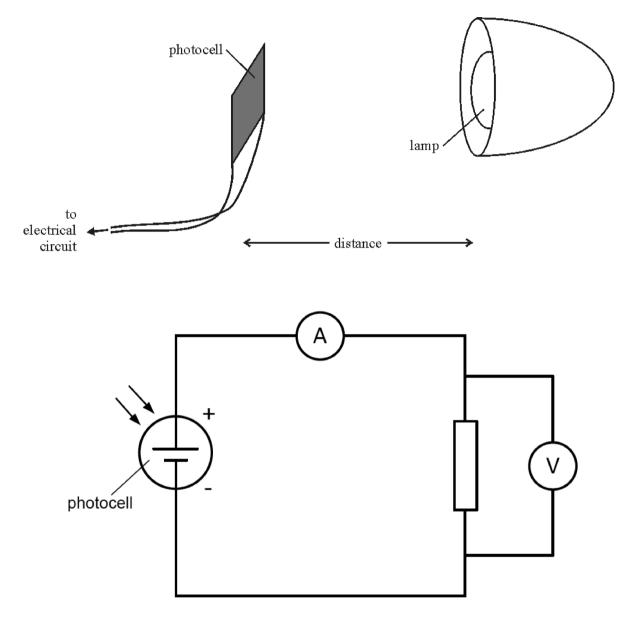
Explain the different points of view put forward by Mia and Sundip, and state, with reasons, which person you think has the better argument.

 [6]

9 Beth is doing an experiment to investigate the output of a solar panel.

She is using a small photocell to model the panel.

She measures the power output of the photocell at different distances from a lamp, as shown below.

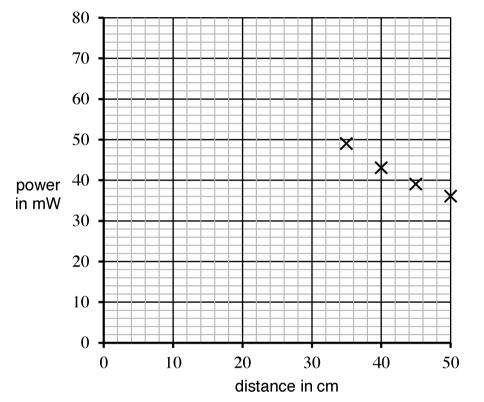


- 17
- (a) Beth obtained values of power at different distances, as shown in the table.

Distance (cm)	25	30	35	40	45	50
Power (mW)	72	57	49	43	39	36

(i) Four points have been plotted on the graph axes below.

Plot the remaining two points and add a best-fit curve.



(ii) What does the graph show?

......[1]

(iii) At a distance of 25cm the power was 72 mW. The voltage across the photocell was recorded as 12 V.

Calculate the current through the photocell.

Use the equation:

power = potential difference × current.

Current = A [4]

[2]

(iv) Calculate the resistance in ohms of the resistor.

Use the information in (iii) and the equation:

potential difference = current × resistance.

Resistance = $\dots \Omega$ [3]

(b) Describe how this experiment should be completed to get a valid set of data.

......[4]

(c) James has done an identical experiment to Beth's in a **different part** of the same lab.

He used an identical lamp, photocell and resistor, but his values of power were much lower than Beth's for the same distances.

He thinks that his part of the lab must have been different from Beth's.

Suggest and explain a reason for the difference in their results.

END OF QUESTION PAPER

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Specimen Assessment Material

GCSE (9–1) Physics B (Twenty First Century Science) J259/02 Depth in physics (Foundation Tier)

SAMPLE MARK SCHEME

Duration: 1 hour 45 minutes

F

MAXIMUM MARK 90

This document consists of 20 pages

MARKING INSTRUCTIONS

PREPARATION FOR MARKING

SCORIS

- 1. Make sure that you have accessed and completed the relevant training packages for on-screen marking: *scoris assessor Online Training*; *OCR Essential Guide to Marking*.
- 2. Make sure that you have read and understood the mark scheme and the question paper for this unit. These are posted on the RM Cambridge Assessment Support Portal <u>http://www.rm.com/support/ca</u>
- 3. Log-in to scoris and mark the **required number** of practice responses ("scripts") and the **required number** of standardisation responses.

YOU MUST MARK 10 PRACTICE AND 10 STANDARDISATION RESPONSES BEFORE YOU CAN BE APPROVED TO MARK LIVE SCRIPTS.

MARKING

- 1. Mark strictly to the mark scheme.
- 2. Marks awarded must relate directly to the marking criteria.
- 3. The schedule of dates is very important. It is essential that you meet the scoris 50% and 100% (traditional 50% Batch 1 and 100% Batch 2) deadlines. If you experience problems, you must contact your Team Leader (Supervisor) without delay.
- 4. If you are in any doubt about applying the mark scheme, consult your Team Leader by telephone, email or via the scoris messaging system.

- 5. Work crossed out:
 - a. where a candidate crosses out an answer and provides an alternative response, the crossed out response is not marked and gains no marks
 - b. if a candidate crosses out an answer to a whole question and makes no second attempt, and if the inclusion of the answer does not cause a rubric infringement, the assessor should attempt to mark the crossed out answer and award marks appropriately.
- 6. Always check the pages (and additional objects if present) at the end of the response in case any answers have been continued there. If the candidate has continued an answer there then add a tick to confirm that the work has been seen.
- 7. There is a NR (No Response) option. Award NR (No Response)
 - if there is nothing written at all in the answer space
 - OR if there is a comment which does not in any way relate to the question (e.g. 'can't do', 'don't know')
 - OR if there is a mark (e.g. a dash, a question mark) which isn't an attempt at the question.

Note: Award 0 marks - for an attempt that earns no credit (including copying out the question).

- 8. The scoris **comments box** is used by your Team Leader to explain the marking of the practice responses. Please refer to these comments when checking your practice responses. **Do not use the comments box for any other reason.** If you have any questions or comments for your Team Leader, use the phone, the scoris messaging system, or email.
- 9. Assistant Examiners will send a brief report on the performance of candidates to their Team Leader (Supervisor) via email by the end of the marking period. The report should contain notes on particular strengths displayed as well as common errors or weaknesses. Constructive criticism of the question paper/mark scheme is also appreciated.

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10. For answers marked by levels of response:

Read through the whole answer from start to finish, using the Level descriptors to help you decide whether it is a strong or weak answer. The indicative scientific content in the Guidance column indicates the expected parameters for candidates' answers, but be prepared to recognise and credit unexpected approaches where they show relevance. Using a 'best-fit' approach based on the skills and science content evidenced within the answer, first decide which set of level descriptors, Level 1, Level 2 or Level 3, best describes the overall quality of the answer.

Once the level is located, award the higher or lower mark:

The higher mark should be awarded where the level descriptor has been evidenced and all aspects of the communication statement (in italics) have been met.

The lower mark should be awarded where the level descriptor has been evidenced but aspects of the communication statement (in italics) are missing.

In summary:

The skills and science content determines the level. The communication statement determines the mark within a level.

Level of response questions on this paper are **3(c)** and **8**.

11. Annotations

Annotation	Meaning
DO NOT ALLOW	Answers which are not worthy of credit
IGNORE	Statements which are irrelevant
ALLOW	Answers that can be accepted
()	Words which are not essential to gain credit
_	Underlined words must be present in answer to score a mark
ECF	Error carried forward
AW	Alternative wording
ORA	Or reverse argument

12. Subject-specific Marking Instructions

INTRODUCTION

Your first task as an Examiner is to become thoroughly familiar with the material on which the examination depends. This material includes:

- the specification, especially the assessment objectives
- the question paper
- the mark scheme.

You should ensure that you have copies of these materials.

You should ensure also that you are familiar with the administrative procedures related to the marking process. These are set out in the OCR booklet **Instructions for Examiners**. If you are examining for the first time, please read carefully **Appendix 5 Introduction to Script Marking: Notes for New Examiners**.

Please ask for help or guidance whenever you need it. Your first point of contact is your Team Leader.

The breakdown of Assessment Objectives for GCSE (9–1) in Physics B (Twenty First Century Science):

	Assessment Objective					
AO1	Demonstrate knowledge and understanding of scientific ideas and scientific techniques and procedures.					
AO1.1	Demonstrate knowledge and understanding of scientific ideas.					
AO1.2	Demonstrate knowledge and understanding of scientific techniques and procedures.					
AO2	Apply knowledge and understanding of scientific ideas and scientific enquiry, techniques and procedures.					
AO2.1	Apply knowledge and understanding of scientific ideas.					
AO2.2	Apply knowledge and understanding of scientific enquiry, techniques and procedures.					
AO3	Analyse information and ideas to interpret and evaluate, make judgements and draw conclusions and develop and improve experimental procedures.					
AO3.1	Analyse information and ideas to interpret and evaluate.					
AO3.1a	Analyse information and ideas to interpret.					
AO3.1b	Analyse information and ideas to evaluate.					
AO3.2	Analyse information and ideas to make judgements and draw conclusions.					
AO3.2a	Analyse information and ideas to make judgements.					
AO3.2b	Analyse information and ideas to draw conclusions.					
AO3.3	Analyse information and ideas to develop and improve experimental procedures.					
AO3.3a	Analyse information and ideas to develop experimental procedures.					
AO3.3b	Analyse information and ideas to improve experimental procedures.					

Q	Question		Answer Mar		Answer Marks		AO	Guidance
	-	-			element			
1	(a)	(i)	Larger/greater/bigger ✓	1	3.1a			
		(ii)	Less/smaller ✓	1	3.1a			
	(b)		Amplitude = $0.6 \div 2 \checkmark$	3	3.1a			
			= 0.3 (m) 🗸					
			Wavelength = 0.25 (m) ✓					
	(c)	(i)	Frequency = 5 ÷ 10 Hz ✓	2	2.1			
			= 0.5 (Hz) ✓					
		(ii)	FIRST CHECK ANSWER ON ANSWER LINE.	2		ECF own frequency and wavelength		
			If answer = 0.125 m/s award 2 marks					
			= 0.5 Hz x 0.25 m ✓		2.1			
			= 0.125 m/s ✓		2.1			

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Q	Question		Answer	Marks AO element		Guidance	
2	(a)	(i)	Gamma ✓ Infra-red ✓ Radio ✓	3	1.1		
		(ii)	Wavelength ✓	1	1.1		
	(b)		X-rays to produce images of bones microwaves to carry information along infra-red to carry satellite signals	2	2.1	All correct = 2 marks 2 correct = 1 mark 1 or 0 correct = 0 marks	

Qu	estion	Answer	Marks	AO element	Guidance
3	(a)	False ✓ True ✓	2	1.1	
	(b)	(3), 2, 5, 6, 4, (1)	4	1.1	One mark for each number in the correct place unless it is repeated. Repeated numbers do not score even if one is correct
	(C) *	 Please refer to the marking instructions on page 4 of this mark scheme for guidance on how to mark this question. Level 3 (5–6 marks) Correctly describes the nature of galaxies AND Links this to a description of red-shift and may link this to Hubble's observations AND Links this to the relationship between the distance of each galaxy and its speed as evidence of an expanding universe model There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated. Level 2 (3–4 marks) Correctly describes the nature of galaxies AND Links this to a description of red-shift OR refers to galaxies moving away from us without direct reference to red-shift OR Describes the relationship between the distance of a galaxy and its speed as evidence of an expanding universe model 	6	1.1 x2 2.1 x4	 AO1.1: Nature of galaxies For example: Collection of stars In vast numbers All the stars in a galaxy are kept together by the gravity of all the other stars Galaxies have red-shift AO1.1: Basic statement about the universe started in a Big Bang AO2.1: Description of red-shift (linked to the nature of galaxies) For example: Red-shift means moving away Bigger red-shift means moving faster Further galaxies are moving away faster AO2.1: Hubble's observations (linked to the nature of galaxies) For example: Galaxies are (well) outside the Milky Way Further galaxies have greater red-shift AO2.1: Evidence for expanding universe model (linked to galaxies and red-shift) For example: Must have all started at the same place at one particular time Galaxies have been moving apart ever since

Question	Answer	Marks	AO element	Guidance
	There is a line of reasoning presented with some structure. The information presented is relevant and supported by some evidence.			
	Level 1 (1–2 marks) Correctly describes the nature of galaxies AND Makes reference to galaxies moving away from us without direct reference to red-shift OR Makes a basic statement about how the universe started in a Big Bang There is an attempt at a logical structure with a line of reasoning. The information is in the most part relevant.			
	0 marks No response or no response worthy of credit.			

Q	Question		Answer	Marks	AO element	Guidance	
4	(a)	(i)	FIRST CHECK THE ANSWER ON ANSWER LINE. If answer = 6.5 (kWh) award 3 marks Convert 195 minutes in hours = $3.25 \text{ h} \checkmark$ 2.0 (kW) × 3.25 (h) = 6.5 (kWh) \checkmark	3	1.2 2.1 2.1	Correct substitution gains first 2 marks (if equation is missing)	
		(ii)	FIRST CHECK THE ANSWER ON ANSWER LINE. If answer = 8 – 9 (A) and therefore appliance A award 4 marks Recalls Power = Voltage x Current \checkmark Converts 2 kW to 2000 W \checkmark Rearranges to I = P/V = 2000 / 230 \checkmark Gets 8 – 9 A so appliance A has largest current \checkmark	4	1.1 2.1 2.1 3.2b	Correct substitution gains first 2 marks (if equation is missing) Or applies <i>P</i> = <i>IV</i> to appliance B (to find <i>P</i>) Which is 276 – 288 W So 2 kW (appliance A) is greatest power and so greatest current	
	(b)		Insulate the tank ✓ So less heat is lost through conduction over time ✓	2	2.2	Method stated Explain why energy loss is less e.g. not heat water until needed	
	(c)		FIRST CHECK ANSWER ON ANSWER LINE. If answer = £0.51 award 2 marks $16p \ge 3.2 \text{ kWh} = 51.2 \text{ p} \checkmark$ $51.2 \text{ p} \div 100 = (\text{\pounds})0.51 \checkmark$	2	2.1 3.2b		

Q	uest	ion	Answer	Marks	AO element	Guidance
5	(a)		Steady speed (of 5 m/s) for 10 seconds/to start with ✓ Then decelerates (to rest) ✓ At a uniform rate ✓	3	3.1a	
	(b)		Attempts to find area under line \checkmark Area under 1 st 10 s = 50 m \checkmark Last 10 s = triangle area = 25 m \checkmark Total is rectangle + triangle = 75 (m) \checkmark	4	2.2 2.2 2.2 3.2b	ECF own values for rectangle and triangle
	(c)	(i)	FIRST CHECK THE ANSWER ON ANSWER LINE. If answer = 4 (m/s) award 3 marks Re-arrange equation to get Speed = acceleration x time \checkmark 0.4 x 10 \checkmark = 4 (m/s) \checkmark	3	1.2 2.1 2.1	Correct substitution gains first 2 marks (if equation is missing) Method is using <i>v=at</i> , evaluation = 4 (m/s) ECF own value of speed for second point
		(ii)	Line from (0,0) \checkmark To (10,4) \checkmark Line from top speed to (18,0) \checkmark	3	2.2	

C	Question		Answer	Marks	AO element	Guidance	
6	(a)		 A: the ground pushes the car upwards ✓ B: weight of the car ✓ C: engine/wheels push it forwards/provide driving force ✓ D: air resistance/drag/friction ✓ 	4	2.1	ALLOW 'gravity' or 'the Earth pulls it down' ALLOW reaction force	
	(b)	(i)	C √	1	2.1		
		(ii)	FIRST CHECK THE ANSWER ON ANSWER LINE. If answer = 0.8 (m/s ²) award 3 marks Recall $F=ma$ and rearrange to find a \checkmark $a = F \div m = 800$ N/1000 kg \checkmark = 0.8 (m/s ²) \checkmark	3	1.1 2.1 2.1		
		(iii)		2	2.1		

Q	uestion	Answer	Answer Marks AO eleme		Guidance
7	(a)	A: Nucleus ✓	3	1.1	
		B: Neutron ✓			
		C: Electron ✓			
	(b)	Alphas stopped by paper \checkmark	2	1.2	Any two points (this will allow the third to be deduced)
		Betas penetrate paper but not Al sheet \checkmark			
		Gammas penetrate both ✓			
	(c)	Can cause cancer / damage cells ✓	2	1.1	ALLOW any hazard with relevant safety precaution
		Make sure source is not directed towards body / is not ingested ✓		3.3a	

Question	Answer	Marks AO element		Guidance	
8*	 Please refer to the marking instructions on page 4 of this mark scheme for guidance on how to mark this question. Level 3 (5–6 marks) Balanced explanation of both points of view linked to the risks / benefits. AND Judgement made as to the better argument. There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated Level 2 (3–4 marks) Explains at least one point in favour of nuclear power and one against. AND Makes a reasoned choice of Mia or Sundip as being right. There is a line of reasoning presented with some structure. The information presented by some evidence. Level 1 (1–2 marks) States differences between renewable and non-renewable energy sources. AND Considers only one side of the argument. 	6	1.1 x3 2.2 x1 3.1b x1 3.2b x1	 AO1.1 Renewable vs. Non-renewable energy resources For example: Coal and oil are non – renewable so will run out Nuclear is also non renewable A renewable energy resource will not run out e.g. wind, wave, solar etc. AO1.1 Nuclear energy hazards For example Ionising radiation can have hazardous effects, notably on human body tissue AO2.2 Compare the ways in which the main energy resources are used to generate electricity AO 3.1b Risk/benefit CO₂ contributes to global warming nuclear waste could leak / enter the biosphere risk small, but consequence serious possibility of employment in new power station which may bring money into the area nuclear power stations don't produce CO₂ (once built) coal / gas produce CO₂ solar / wind / hydroelectric / tidal don't produce CO₂ radioactive waste produced in nuclear power stations AO3.2b Judgement made as to the better argument 	

There is an attempt at a logical structure with a line of reasoning. The information is in the most part relevant.			
0 marks No response or no response worthy of credit.			

Q	Question		Answer	Marks	AO element	Guidance
9	(a)	(i)	Both points correctly plotted ✓ Smooth curve drawn ✓	2	1.2	
		(ii)	Power goes down with distance (non- uniformly) ✓	1	3.1a	ALLOW negative correlation correctly described
		(iii)	FIRST CHECK ANSWER ON ANSWER LINE. If answer = 6 x 10 ⁻³ (A) award 4 marks. Rearranges equation to give	4		
			Current = power \div potential difference \checkmark		1.2	
			Converts mW to W = 0.072 W \checkmark		2.1	
			= 0.072 ÷ 12 ✓		2.1	
			= 6 x 10 ⁻³ A ✓		2.1	
			Or 6mA			
		(iv)	FIRST CHECK ANSWER ON ANSWER LINE. If answer = 2000 (Ω) award 3 marks.	3		
			Rearrange equation to give			
			Resistance = Potential difference ÷ current ✓		1.2	
			12v ÷ 6 x 10⁻³A ✓		2.1	
			= 2000 (Ω)		2.1	

Question	Answer	Marks	AO element	Guidance
(b)	Lamp at fixed distance from photocell and read I and $V \checkmark$	4	3.3a	
	Repeat reading at each distance \checkmark		3.3b	
	Repeat for any outliers \checkmark		3.3b	
	Take mean <i>I</i> and <i>V</i> for each distance \checkmark		3.3a	
(c)	Recognises that James's photocell is getting less light ✓ Suggested reason ✓	2	3.2a 3.2b	e.g. Beth was near a window (so more light) while James was in a dark corner; allow systematic mismeasurement of distance by one or the other if correctly justified e.g. the end of Beth's ruler wasn't near the actual lamp but some distance from it, so all her distances are too small
				ALLOW any situation where James would receive less light than Beth

Summary of updates

Date	Version	Change	
May 2018	2	We've reviewed the look and feel of our papers through text, tone, language, images and formatting. For more information please see our assessment principles in our "Exploring our question papers" brochures on our website	