

# Foundation

**GCSE**

**Combined Science Physics A Gateway Science**

**J250/06: Paper 6 (Foundation Tier)**

General Certificate of Secondary Education

**Mark Scheme for June 2024**

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of candidates of all ages and abilities. OCR qualifications include AS/A Levels, Diplomas, GCSEs, Cambridge Nationals, Cambridge Technicals, Functional Skills, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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## MARKING INSTRUCTIONS

### PREPARATION FOR MARKING

#### RM ASSESSOR

1. Make sure that you have accessed and completed the relevant training packages for on-screen marking: *RM 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 available in RM Assessor.
3. Log-in to RM Assessor and mark the **required number** of practice responses ("scripts") and the **required number** of standardisation responses.

### 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 RM Assessor 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 RM Assessor messaging system.
5. **Crossed Out Responses**  
Where a candidate has crossed out a response and provided a clear alternative then the crossed out response is not marked. Where no alternative response has been provided, examiners may give candidates the benefit of the doubt and mark the crossed out response where legible.

**Rubric Error Responses – Optional Questions**

Where candidates have a choice of question across a whole paper or a whole section and have provided more answers than required, then all responses are marked and the highest mark allowable within the rubric is given. Enter a mark for each question answered into RM assessor, which will select the highest mark from those awarded. (*The underlying assumption is that the candidate has penalised themselves by attempting more questions than necessary in the time allowed.*)

**Multiple Choice Question Responses**

When a multiple choice question has only a single, correct response and a candidate provides two responses (even if one of these responses is correct), then no mark should be awarded (as it is not possible to determine which was the first response selected by the candidate).

*When a question requires candidates to select more than one option/multiple options, then local marking arrangements need to ensure consistency of approach.*

**Contradictory Responses**

When a candidate provides contradictory responses, then no mark should be awarded, even if one of the answers is correct.

**Short Answer Questions (requiring only a list by way of a response, usually worth only one mark per response)**

Where candidates are required to provide a set number of short answer responses then only the set number of responses should be marked. The response space should be marked from left to right on each line and then line by line until the required number of responses have been considered. The remaining responses should not then be marked. Examiners will have to apply judgement as to whether a 'second response' on a line is a development of the 'first response', rather than a separate, discrete response. (*The underlying assumption is that the candidate is attempting to hedge their bets and therefore getting undue benefit rather than engaging with the question and giving the most relevant/correct responses.*)

**Short Answer Questions (requiring a more developed response, worth two or more marks)**

If the candidates are required to provide a description of, say, three items or factors and four items or factors are provided, then mark on a similar basis – that is downwards (as it is unlikely in this situation that a candidate will provide more than one response in each section of the response space.)

**Longer Answer Questions (requiring a developed response)**

Where candidates have provided two (or more) responses to a medium or high tariff question which only required a single (developed) response and not crossed out the first response, then only the first response should be marked. Examiners will need to apply professional

judgement as to whether the second (or a subsequent) response is a 'new start' or simply a poorly expressed continuation of the first response.

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 the annotation 'SEEN' to confirm that the work has been seen.
7. Award No Response (NR) if:
  - there is nothing written in the answer space

Award Zero '0' if:

- anything is written in the answer space and is not worthy of credit (this includes text and symbols).

Team Leaders must confirm the correct use of the NR button with their markers before live marking commences and should check this when reviewing scripts.

8. The RM Assessor **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 RM Assessor 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.

## 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 question on this paper is **13**.

## 11. Annotations available in RM Assessor

Annotation	Meaning
✓	Correct response
✗	Incorrect response
^K	Omission mark
BOD	Benefit of doubt given
CON	Contradiction
RE	Rounding error
SF	Error in number of significant figures
ECF	Error carried forward
L1	Level 1
L2	Level 2
L3	Level 3
NBOD	Benefit of doubt not given
SEEN	Noted but no credit given
I	Ignore

Abbreviations, annotations and conventions used in the detailed Mark Scheme (to include abbreviations and subject-specific conventions).

Annotation	Meaning
/	alternative and acceptable answers for the same marking point
✓	Separates marking points
<b>DO NOT ALLOW</b>	Answers which are not worthy of credit
<b>IGNORE</b>	Statements which are irrelevant
<b>ALLOW</b>	Answers that can be accepted
( )	Words which are not essential to gain credit
—	Underlined words must be present in answer to score a mark
<b>ECF</b>	Error carried forward
<b>AW</b>	Alternative wording
<b>ORA</b>	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.

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The breakdown of Assessment Objectives for GCSE (9-1) in Combined Science A:

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

For answers to Section A if an answer box is blank ALLOW correct indication of answer e.g. circled or underlined.

Question	Answer	Marks	AO element	Guidance
1	C	1	1.1	ALLOW 10 (m / s)
2	A	1	2.1	
3	A	1	2.1	ALLOW 2500 (J)
4	D	1	2.1	ALLOW 120 (J)
5	D	1	1.2	
6	B	1	1.1	
7	B	1	1.1	
8	D	1	1.1	
9	B	1	1.2	
10	C	1	1.2	

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Question		Answer	Marks	AO element	Guidance										
11	(a)	${}_{3}^{7}\text{Li}$ contains 3 protons and 4 neutrons ✓ ${}_{7}^{14}\text{N}$ and ${}_{7}^{15}\text{N}$ are isotopes ✓ The atomic number of nitrogen is 7 ✓	3	$3 \times 1.1$											
	(b)	Alpha particles ✓	1	2.2											
	(c)	<table border="0"> <tr> <td style="text-align: center;">Quantity</td> <td style="text-align: center;">What happens</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Mass number</td> <td style="border: 1px solid black; padding: 2px;">Decreases by 4</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Charge</td> <td style="border: 1px solid black; padding: 2px;">Decreases by 1</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Charge</td> <td style="border: 1px solid black; padding: 2px;">Increases by 1</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">Charge</td> <td style="border: 1px solid black; padding: 2px;">Stays the same</td> </tr> </table>	Quantity	What happens	Mass number	Decreases by 4	Charge	Decreases by 1	Charge	Increases by 1	Charge	Stays the same	2	$2 \times 1.1$	<p>Correct answer for mass number ✓  Correct answer for charge ✓</p> <p><b>DO NOT ALLOW</b> more than one line from or to each box</p>
Quantity	What happens														
Mass number	Decreases by 4														
Charge	Decreases by 1														
Charge	Increases by 1														
Charge	Stays the same														
	(d)	(For nucleus/atom) to become stable✓	1	1.1	<p><b>ALLOW</b> (nucleus/atom) is unstable</p> <p><b>IGNORE</b> references to electrons</p>										
	(e)	<p><b>First check the answer on the answer line</b>  <b>If answer = 15 (days) award 2 marks</b></p> <p>2 half-lives (= 30 days) ✓  1 half-life = 15 (days) ✓</p>	2	$2 \times 2.2$											

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Question		Answer	Marks	AO element	Guidance
12	(a)	C ✓	1	1.1	
	(b)	Wave ✓	1	1.1	
	(c)	<p><b>Any two from:</b></p> <p>May be unreliable/ inconsistent / weather dependent ✓</p> <p>Power output from renewables is too small (to meet demand) ✓</p> <p>Cannot provide sufficient space for enough (wind turbines / solar panels /hydroelectric)✓</p> <p>Will need power stations with a short start-up time to cope with <u>increases in demand</u> ✓</p> <p>Cannot find enough suitable sites for wave/tidal/HEP/geothermal ✓</p>	2	2 × 2.1	<p><b>ALLOW</b> specific examples e.g., may not be enough sunlight / solar does not work at night / may not be enough wind speed / may be too much wind speed</p> <p><b>ALLOW</b> Demand is too great for renewables <b>IGNORE</b> not as efficient</p> <p><b>ALLOW</b> Renewable sources take up lot of land</p> <p><b>ALLOW</b> Renewables cannot respond quickly to <u>increased demand</u></p> <p><b>IGNORE</b> references to cost/expense/being noisy/unsightly</p>
	(d) (i)	Bar for Gas drawn to correct height of 36% ✓ Bar for Wind drawn to correct height of 24% ✓	2	2 × 2.2	<b>ALLOW</b> a tolerance of +/- ½ a small square
	(ii)	<p><b>First check the answer on the answer line</b> <b>If answer = 12.6 (TWh) award 2 marks</b></p> <p>(amount =) <math>4 \div 100 \times 315</math> (TWh) ✓</p> <p>(amount =) 12.6 (TWh) ✓</p>	2	2 × 1.2	<p><b>ALLOW</b> 0.04 seen for 1 mark <b>IGNORE</b> 4% x 315</p> <p>Guidance - first mark is for showing how to calculate percentage</p>
	(iii)	315 000 000 000 kWh ✓	1	1.2	3 <sup>rd</sup> box ticked

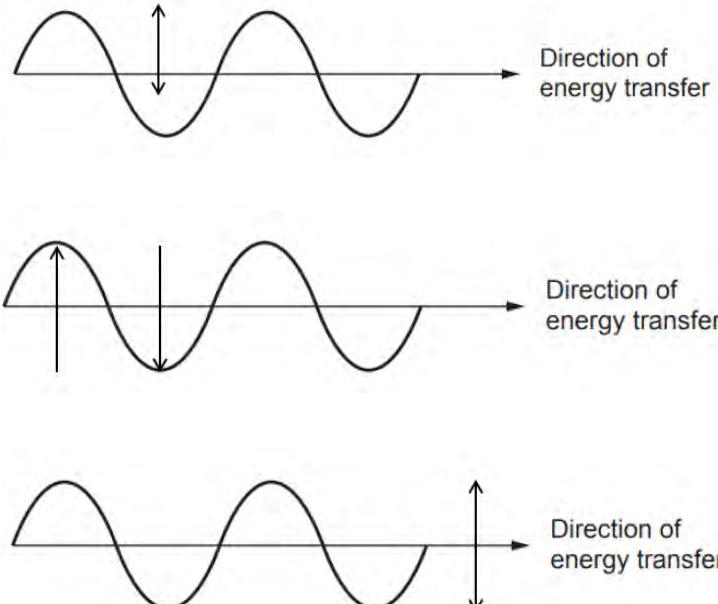
Question	Answer	Marks	AO element	Guidance
13 *	<p>Please refer to the marking instructions on page 4 of this mark scheme for guidance on how to mark this question.</p> <p><b>Level 3 (5–6 marks)</b> Detailed description of measurements <b>AND</b> control variables <b>AND</b> describes some precautions taken to obtain accurate and precise results</p> <p><i>There is a well-developed line of reasoning which is clear and logically structured. The information presented is relevant and substantiated.</i></p> <p><b>Level 2 (3–4 marks)</b> A description of measurement <b>AND</b> a controlled variable suggested <b>AND</b> describes a precaution taken to obtain accurate and precise results</p> <p><b>OR</b> Detailed description of measurements <b>AND</b> a controlled variable <b>or</b> a precaution</p> <p><b>OR</b> Describes some precautions taken to obtain accurate and precise results <b>AND</b> a controlled variable <b>or</b> a measurement</p> <p><i>There is a line of reasoning presented with some structure. The information presented is relevant and supported by some evidence.</i></p>	6	$2 \times 2.2$ $2 \times 3.3a$ $2 \times 3.3b$	<p><b>AO2.2 - Apply knowledge and understanding of scientific enquiry, techniques and procedures to measure wave speed</b></p> <ul style="list-style-type: none"> <li>• Measures length of tray (with a ruler)</li> <li>• Measures time taken for wave to travel across tray (with a stopwatch)</li> <li>• Uses <math>s = d \div t</math> to calculate wave speed</li> </ul> <p><b>IGNORE</b> Measurement of frequency/wavelength for this AO</p> <p><b>AO3.3a - Analyse information and ideas to develop experimental procedures to measure wave speed</b></p> <p>Control variables:</p> <ul style="list-style-type: none"> <li>• Depth/amount/mass of water</li> <li>• Height tray lifted (to produce wave)</li> </ul> <p><b>AO3.3b - Analyse information and ideas to improve experimental procedures to measure wave speed</b></p> <ul style="list-style-type: none"> <li>• Ensures no zero error using ruler</li> <li>• Takes repeat readings of time <b>and</b> takes mean/checks for anomalies</li> <li>• Video/computer method suggested to measure time (to eliminate reaction time errors)</li> <li>• Stop water splashing out by not raising the tray too high</li> </ul>

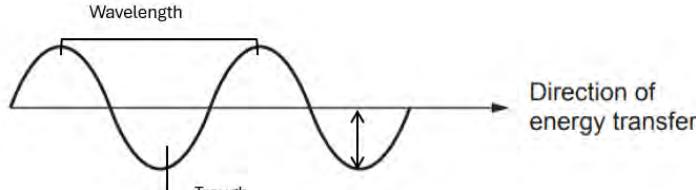
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	<p><b>Level 1 (1–2 marks)</b></p> <p>A description of a measurement <b>OR</b> A controlled variable suggested <b>OR</b> Describes a precaution taken to obtain accurate and precise results</p> <p><i>There is an attempt at a logical structure with a line of reasoning. The information is in the most part relevant.</i></p> <p><b>0 marks</b> <i>No response or no response worthy of credit.</i></p>		
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Question		Answer	Marks	AO element	Guidance
14	(a)	<p><b>Either:</b> Oscillations/vibrations are at <math>90^\circ</math>/right angles/perpendicular (to the direction of energy transfer /wave motion) ✓</p> <p><b>Or:</b> Diagram showing vibration at <math>90^\circ</math> to the arrow for direction of energy transfer ✓</p>	1	1.1	<p><b>ALLOW</b> (oscillations/vibrations) right angle/perpendicular/<math>90</math> degrees to direction of energy transfer/wave motion</p> <p><b>ALLOW</b> vibrations are vertical <u>and</u> energy transfer wave motion horizontal</p> <p><b>ALLOW</b> <u>vibration</u> goes up and down</p> <p><b>ALLOW</b> answers on diagram or in description</p> <p>Examples of acceptable answers:</p> 

Question		Answer	Marks	AO element	Guidance
					<p>Example of a <b>not</b> acceptable answer (vibration must clearly go above and below centre line):</p>  <p>CON if arrow contradicts written answer</p>
(b)		<p><b>First check the answer on the answer line</b>  <b>If answer = 300 000 000 (m / s) award 3 marks</b></p> <p>unit conversion: <math>7\ 500\ \text{kHz} = 7\ 500\ 000\ (\text{Hz})</math></p> <p>(wave speed =) <math>7\ 500\ 000 \times 40 \checkmark</math></p> <p>(wave speed =) <math>300\ 000\ 000\ (\text{m / s}) \checkmark</math></p>	3	1.2 2 x 2.1	<p><b>ACCEPT</b> <math>7\ 500 \times 10^n \times 40</math> for 1 mark</p> <p><b>ACCEPT</b> <math>3 \times 10^8\ (\text{m / s})</math></p> <p><b>ACCEPT</b> <math>3 \times 10^n\ (\text{m / s})</math> incorrect/no unit conversion for 2 marks</p>
(c)	(i)	As frequency (range) increases, wavelength (range) decreases / <b>ORA</b> ✓	1	3.1a	<p><b>ALLOW</b> inversely proportional</p> <p><b>ALLOW</b> <u>higher</u> frequency <u>lower</u> wavelength / <b>ORA</b></p>
	(ii)	HF ✓	1	3.2b	
	(iii)	May cause heating (to skin/water molecules) / burns (to skin) ✓	1	3.2a	<b>ALLOW</b> makes thermal energy
	(iv)	<p>High frequency radio waves are <b>less</b> dangerous than microwaves.</p> <p><b>And</b></p> <p>Frequency is lower / (transfer) less energy / <b>ORA</b> ✓</p>	1	3.2a	<b>DO NOT ALLOW</b> references to radioactivity

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Question		Answer	Marks	AO element	Guidance
15	(a)	<p><b>First check the answer on the answer line</b>  <b>If answer = 100 000 (W) award 2 marks</b></p> <p>(power =) <math>400 \times 250 \checkmark</math></p> <p>(power =) 100 000 (W) <math>\checkmark</math></p>	2	2 × 2.1	
	(b) (i)	Step-down $\checkmark$	1	1.1	
	(ii)	Between the power lines and homes $\checkmark$	1	1.2	
	(c)	<p><b>First check the answer on the answer line</b>  <b>If answer = 0.9 award 2 marks</b></p> <p>(efficiency =) <math>180 \div 200</math> <b>OR</b> <math>180 000 \div 200 000 \checkmark</math></p> <p>(efficiency =) 0.9 <math>\checkmark</math></p>	2	2 × 2.1	<p><b>ALLOW</b> 90% for 2 marks  <b>ALLOW</b> 90 or 0.9% for 1 mark</p> <p><b>IGNORE</b> all other units</p>

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Question		Answer	Marks	AO element	Guidance
16	(a)	Live and neutral ✓	1	1.1	
	(b)	<b>Any one from:</b> May cause a (loud) bang/pop/noise/sound ✓ May cause wires to get hot / may cause insulation/wires to melt / may cause smoke / may cause fire ✓ May cause fuse(s) to blow / may cause RCD(s) to trip ✓	1	2.2	<b>IGNORE</b> explosion <b>ALLOW</b> causes sparks / causes a (burning) smell <b>IGNORE</b> removes the safety of the earth wire / causes damage / appliance melt <b>IGNORE</b> causes a power cut <b>IGNORE</b> changes in current / overpower the electrics
	(c)	<b>First check the answer on the answer line</b> <b>If answer = 42 (kWh) award 2 marks</b>  $(E =) 2.4 \times 2.5 \times 7$ ✓  $(E =) 42$ (kWh) ✓	2	2 x 2.1	<b>ALLOW</b> $2.4 \times 17.5$ <b>ALLOW</b> <u><math>2.4 \times 2.5 = 6</math></u> for 1 mark  <b>ALLOW</b> $4.2 \times 10^n$ as the final answer for 1 mark
	(d) (i)	<b>Any one from:</b> As current increases, danger increases / <b>ORA</b> ✓ As time for current to flow increases, danger increases / <b>ORA</b> ✓	1	3.1a	<b>ALLOW</b> alternative wording for danger e.g., cardiac arrest / difficulty breathing / effects more serious / effects get worse / risks increase / becomes fatal  <b>IGNORE</b> as the current increases the time decreases (so danger increases)  <b>IGNORE</b> ideas that are not trends e.g., no danger at low currents / no effects until past 500 mA

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Question		Answer	Marks	AO element	Guidance
16	(d)	(ii) 10 000 (ms) ✓	1	2.2	<b>ALLOW</b> 10 seconds / 10 s  <b>DO NOT ALLOW</b> incorrect unit e.g., 10 000 m/s or 10 000 s
	(iii)	<p><b>First check the answer on the answer line</b>  <b>If answer = 0.045 (C) award 3 marks</b></p> <p>Unit conversion: <math>150 \text{ mA} = 0.15 \text{ A}</math> ✓</p> <p>(charge =) <math>0.15 \times 0.3</math> ✓</p> <p>(charge =) <math>0.045 \text{ (C)}</math> ✓</p>	3	1.2 2.1 2.1	
	(iv)	To prevent difficulty breathing / no lasting effects ✓	1	3.2a	<p><b>IGNORE</b> to prevent cardiac arrest  <b>IGNORE</b> to prevent electrocution</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Key:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> No reaction</li> <li><input type="checkbox"/> No lasting effects</li> <li><input type="checkbox"/> Difficulty breathing</li> <li><input type="checkbox"/> Cardiac arrest</li> </ul> </div> <p>Time that current passes through the body (ms)</p> <p>Current passing through a human body (mA)</p>

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Question		Answer	Marks	AO element	Guidance
16	(d)	(v)	<p><b>RCD A</b> Any two from:</p> <p>(Safer as) current lower ✓</p> <p>Current is 10/low so no lasting effects ✓</p> <p>Time is 100/high but no lasting effects ✓</p> <p>Very sensitive ✓</p> <p><b>RCD B</b> Any two from:</p> <p>(Safer as) switches off faster ✓</p> <p>Current is 30/high but no lasting effects ✓</p> <p>Time is 40/low so no lasting effects ✓</p> <p>Will not keep shutting off supply accidentally ✓</p>	2	<p><b>2 × 3.1b</b></p> <p>Both marks for RCD <b>A</b> or both marks for RCD <b>B</b>, maximum 1 mark if RCD <b>A</b> and RCD <b>B</b> selected</p> <p>Answer must be comparative</p> <p><b>ALLOW</b> any time at a current of 10 has no lasting effects for 2 marks</p> <p><b>ALLOW</b> calculation to demonstrate a smaller charge flow e.g., RCD <b>A</b> charge flow is 0.001 C, but RCD <b>B</b> charge flow is 0.0012</p> <p>Answer must be comparative</p> <p><b>ALLOW</b> time up to 500 at a current of 30 has no lasting effects for 2 marks</p>

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