



Pearson
Edexcel

Mark Scheme (Results)

Summer 2022

Pearson Edexcel GCSE
In Physics (1PH0) Paper 2F

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Summer 2022

Publications Code 1PH0_2F_2206_MS

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General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Mark schemes have been developed so that the rubrics of each mark scheme reflects the characteristics of the skills within the AO being targeted and the requirements of the command word. So for example the command word 'Explain' requires an identification of a point and then reasoning/justification of the point.

Explain questions can be asked across all AOs. The distinction comes whether the identification is via a judgment made to reach a conclusion, or, making a point through application of knowledge to reason/justify the point made through application of understanding. It is the combination and linkage of the marking points that is needed to gain full marks.

When marking questions with a 'describe' or 'explain' command word, the detailed marking guidance below should be consulted to ensure consistency of marking.

Assessment Objective		Command Word	
Strand	Element	Describe	Explain
AO1*		An answer that combines the marking points to provide a logical description	An explanation that links identification of a point with reasoning/justification(s) as required
AO2		An answer that combines the marking points to provide a logical description, showing application of knowledge and understanding	An explanation that links identification of a point (by applying knowledge) with reasoning/justification (application of understanding)
AO3	1a and 1b	An answer that combines points of interpretation/evaluation to provide a logical description	
AO3	2a and 2b		An explanation that combines identification via a judgment to reach a conclusion via justification/reasoning
AO3	3a	An answer that combines the marking points to provide a logical description of the plan/method/experiment	
AO3	3b		An explanation that combines identifying an improvement of the experimental procedure with a linked justification/reasoning

Paper 2F 2206

Question number	Answer	Additional guidance	Mark
1 (a)	<p>circuit symbol</p> <p>description</p> <p>battery</p> <p>LED</p> <p>switch</p> <p>resistor</p>	<p>1 mark for each correct line.</p> <p>more than one line to or from any box loses the mark for that symbol.</p>	<p>(3)</p> <p>AO1</p>

Question number	Answer	Additional guidance	Mark
1 (b)(i)	<p>B electrons</p> <p>A C and D are incorrect because they do not move through a conductor to create an electric current.</p>		<p>(1)</p> <p>AO1</p>

Question number	Answer	Additional guidance	Mark
1 (b)(ii)	<p>substitution (1)</p> <p>(charge =) 0.21×300</p> <p>evaluation (1)</p> <p>(charge =) 63</p> <p>unit (1)</p> <p>coulombs</p>	<p>award full marks for the correct answer without working</p> <p>independent mark</p> <p>C(oulombs)</p> <p>C</p> <p>As</p>	<p>(3)</p> <p>AO2</p> <p>AO1</p>

Total 7 marks

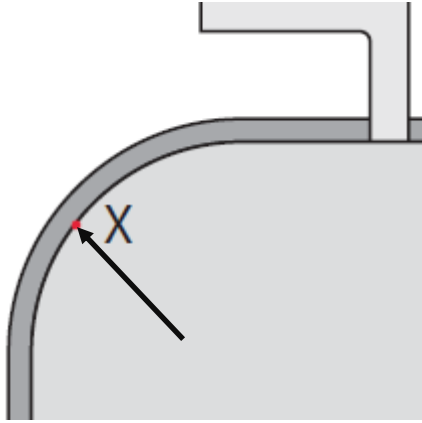
Question number	Answer	Mark
2 (a)	B plotting compass A is incorrect because a force causes a linear movement. C is incorrect because the liquid column expands or contracts linearly. D is incorrect because the slider is moved linearly	(1) AO1

Question number	Answer	Additional guidance	Mark
2 (b)	substitution (1) (moment =) $4(.0) \times 5(.0) (/100)$ evaluation (1) (moment =) $0.2(0)$ (Nm)	2 to any incorrect power of ten scores 1 mark e.g. 20 or 2000 etc award full marks for the correct answer without working	(2) AO2

Question number	Answer	Additional guidance	Mark
2 (c)	<p>identification of clockwise and anticlockwise moment (1)</p> <p>$3(.0) \times 5(.0) (/100)$ $6.0 \times 2.5 (/100)$</p> <p>values (of both moments) are equal (1)</p>	<p>15 and 15 seen or 0.15 and 0.15 seen</p> <p>Accept Y is half the force (as Z) but twice the distance (from the pivot as Z) for this mark</p> <p>may be implied by = sign</p> <p>(turning effect) of the two forces are equal</p>	<p>(2)</p> <p>AO2</p>

Question number	Answer	Additional guidance	Mark
2 (d)	<p>(speed of R is) same (as speed of) P (1)</p> <p>(sense/direction of R is) same (as sense/direction of P) (1)</p>	<p>clockwise / to the right mark may be awarded by arrow on diagram (provided it is not contradicted by a statement)</p>	<p>(2)</p> <p>AO1</p>

Total 7 marks

Question number	Answer	Additional guidance	Mark
3 (a)(i) Clip with fig 6	arrow normal to surface at point x 	Judge by eye may be inside or outside the container	(1) AO1

Question number	Answer	Additional guidance	Mark
3 (a)(ii)	particles are in (random) motion (1) collide with sides (of container) (1)	particles bounce off sides of container award 2 marks for change in momentum of particles.	(2) AO1

Question number	Answer	Additional guidance	Mark
3 (b)	particles have greater (kinetic) energy (1)	greater (average) velocity move faster/ more quickly more (frequent) collisions exert greater force on sides ignore changes pressure of the gas	(1) AO1

Question number	Answer	Additional guidance	Mark
3 (c)(i)	substitution (1) $P_1 = \frac{105 \times 2.3}{0.2}$ evaluation (1) $P_1 = 1200 \text{ (kPa)}$	allow values that round to 1200 e.g. 1207.5 award full marks for the correct answer without working	(2) AO2

Question number	Answer	Additional guidance	Mark
4 (a)(i)	(soft) iron (1)	allow (in this context) nickel (alloys) cobalt steel	(1) AO1

Question number	Answer	Additional guidance	Mark
4 (a)(ii)	would be magnetised (when switch is closed) (1) would be demagnetised when switch is open (1)	(is) magnetic (is) electromagnetic induced magnetism magnetism can be switched off accept for either mark not permanent magnet or temporary magnet	(2) AO1

Question number	Answer	Additional guidance	Mark
4 (b)(i)	the <u>Earth/world/planet</u> has a magnetic field / core(1)	<u>Earth/world/planet</u> has a north (and south) pole	(1) AO3

Question number	Answer	Additional guidance	Mark
4 (b)(ii)	direction (of the field) has changed / rotated (1) (strength of the) field has increased (1)	(from 0 to) 36° from N to NE field is stronger (changed by) 16.52 (μT) numbers have increased (from 46.67 to 63.19)	(2) AO3

Question number	Answer	Additional guidance	Mark
4 (b)(iii)	<p>a description including three from</p> <p>use of equipment to measure distance (1) ruler / tape measure</p> <p>obtain a measurement (1) measure / record strength of the field (at a certain point)</p> <p>change the conditions (1) move the phone / magnet (to a different location)</p> <p>process the results (1) e.g.</p> <ul style="list-style-type: none"> • draw a diagram • make a table • compare results/values • see when (field) stays constant 	<p>measure the distance between phone and magnet</p> <p>rotate the phone/magnet</p>	<p>(3)</p> <p>A03</p>

Total 9 marks

Question number	Answer	Additional guidance	Mark
5 (a) (i)	B live and neutral A , C and D are incorrect because the terms positive and negative are not used in the context of wires in a mains cable.		(1) AO1

Question number	Answer	Additional guidance	Mark
5 (a)(ii)	a description that includes any two from melts (1) if there is a fault (1) breaks the circuit (1) stops current (1) safety (1)	blows / breaks if current too large prevents overheating / fire if no other marks scored allow 1 mark for identifying the fuse.	(2) AO1

Question number	Answer	Additional guidance	Mark
5 (b)	conversion of time (1) 1×60 (s) substitution (1) $(I =) \frac{9000}{230 (x 60)}$ evaluation (1) $(I =) 0.65$ (A)	any value that rounds to 0.65; e.g. 0.65217 0.7 0.6 award full marks for the correct answer without working allow 2 marks for answer of 39(.130)	(3) A02

Question number	Answer	Additional guidance	Mark
5 (c) (i)	An explanation linking energy has been dissipated /wasted / lost (1) as thermal energy (1)	energy has been transferred mechanically useful energy is less than total energy supplied identifies difference of 600(J) heat / to the surroundings ignore sound accept (some) energy has been transferred to thermal store for 2 marks	(2) A03

Question number	Answer	Additional guidance	Mark
5 (c)(ii)	substitution (1) (efficiency =) $\frac{8400}{9000}$ evaluation (1) (efficiency =) 0.93	0.9 93(%) allow values that round to 0.93 or 93(%) award full marks for the correct answer without working	(2) A02

Total 10 marks

Question number	Answer	Additional guidance	Mark
6 (a)	B A, C and D are incorrect because these do not measure the vertical change in height above the earth's surface.		(1) AO1

Question number	Answer	Additional guidance	Mark
6 (b)(i)	joule(s)	J j Nm newton metre(s) kg m ² s ⁻² kg m ² /s ² Ignore SI prefixes do not accept nm	(1) AO1

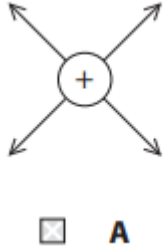
Question number	Answer	Additional guidance	Mark
6 (b)(ii)	selection of and substitution into E = F x d (1) 1960 = weight x 4.0 rearrangement and evaluation (1) (weight =) 490 (N)	accept P x t = F x d 436 x 4.5 = weight x 4.0 490.5 or 491 award full marks for the correct answer without working 530 scores 1 mark (used data to calculate median value)	(2) AO2

Question number	Answer	Additional guidance	Mark
6 (b)(iii)	selection of and substitution into $P = E \div t$ (1) $425 = 2040 \div t$ rearrangement and evaluation (1) (time =) 4.8 (s)	0.208 scores 1 mark 867000 scores 1 mark award full marks for the correct answer without working	(2) AO2

Question number	Answer	Additional guidance	Mark
6 (b)(iv)	values for power selected and added (1) $\frac{440 + 436 + 425}{(3)}$ evaluation (1) 434 (W)	$\frac{1301}{(3)}$ accept values that round to 434 e.g. 433.667 accept 436 (median average) for 2 marks 1301 scores 1 mark 1017(.666) scores 1 mark award full marks for the correct answer without working	(2) AO2

Question number	Answer	Additional guidance	Mark
6 (c)	estimate of weight (1) measure (actual) weight (1)	ignore reaction time use scales ignore repeating measurements	(2) A03

Total 10 marks

Question number	Answer	Additional guidance	Mark
7 (a)	 <p>B C and D are incorrect because they do not show the electric field around a point charge.</p>		(1) A01

Question number	Answer	Additional guidance	Mark
7 (b)	rub the rod with (a cloth) (1)	friction	(1) A01

Question number	Answer	Additional guidance	Mark
7 (c)(i)	<p>A adds electrons to the droplets</p> <p>B and D are incorrect because protons cannot be added or removed from droplets.</p> <p>C is incorrect because this would give an overall positive charge</p>		(1) A01

Question number	Answer	Additional guidance	Mark
7 (c)(ii)	<p>an explanation linking</p> <p>cloud from sprayer 1 is more dispersed (than from sprayer 2) (1)</p> <p>the droplets / charges repel each other (1)</p>	<p>accept reverse argument</p> <p>spread out more (covers) larger area bigger / wider</p>	(2) A03

Question number	Answer	Additional guidance	Mark
7 (c)(iii)	<p>an explanation linking</p> <p>(droplets) attracted (to seat) (1)</p> <p>including parts not in direct line of spray (1)</p>	<p>induced charge (on seat)</p> <p>spreads out (over all the seat)</p>	<p>(2)</p> <p>A02</p>

Question number	Indicative content	Mark
*7(d)	<p>Answers will be credited according to candidate's deployment of knowledge and understanding of the material in relation to the qualities and skills outlined in the generic mark scheme.</p> <p>The indicative content below is not prescriptive and candidates are not required to include all the material which is indicated as relevant. Additional content included in the response must be scientific and relevant.</p> <p>Description of danger</p> <ul style="list-style-type: none"> • build-up of charge could create a spark • flammable fuel can easily catch fire • spark could ignite fuel • igniting fuel could cause a fire / explosion of the plane <p>Description of how risk is reduced</p> <ul style="list-style-type: none"> • The pipe and the airplane are connected by a metal wire • The metal wire is connected to ground/earth • Pipe and airplane at same potential • Metal is a conductor • Electrons can move through metal wire • No charge build-up • No danger of spark • Reduce charge separation by plausible method such as reduce flow rate/ wider pipe / less friction 	<p>(6)</p> <p>A01</p>

Level	Mark	Descriptor
	0	<ul style="list-style-type: none"> No rewardable material.
Level 1	1-2	<ul style="list-style-type: none"> Demonstrates elements of physics understanding, some of which is inaccurate. Understanding of scientific, enquiry, techniques and procedures lacks detail. (AO1) Presents a description which is not logically ordered and with significant gaps. (AO1)
Level 2	3-4	<ul style="list-style-type: none"> Demonstrates physics understanding, which is mostly relevant but may include some inaccuracies. Understanding of scientific ideas, enquiry, techniques and procedures is not fully detailed and/or developed. (AO1) Presents a description of the procedure that has a structure which is mostly clear, coherent and logical with minor steps missing. (AO1)
Level 3	5-6	<ul style="list-style-type: none"> Demonstrates accurate and relevant physics understanding throughout. Understanding of the scientific ideas, enquiry, techniques and procedures is detailed and fully developed. (AO1) Presents a description that has a well-developed structure which is clear, coherent and logical. (AO1)

Level	Mark	Additional Guidance	General additional guidance – the decision within levels e.g. - At each level, as well as content, the scientific coherency of what is stated will help place the answer at the top, or the bottom, of that level.
	0	No rewardable material.	
Level 1	1–2	<u>Additional guidance</u> Two statements	<u>Possible candidate responses</u> There could be a fire that could lead to an explosion.
Level 2	3–4	<u>Additional guidance</u> limited explanation linking facts about dangers arising from charge OR linking facts about how danger is reduced	<u>Possible candidate responses</u> A spark could cause a fire and explosion. OR Build-up of charge prevented by a wire connected to ground
Level 3	5–6	<u>Additional guidance</u> Detailed explanation about danger AND how danger is reduced. (one may be more detailed than the other but both should be present)	<u>Possible candidate responses</u> There could be a spark that could cause a fire in the fuel and explode. AND Wires between the airplane, pipe and ground prevent the build-up of charge.

Total 13 marks

Question number	Answer	Additional guidance	Mark
8 (a)(i)	Substitution and evaluation (1) 15 (Ω)		(1) A02

Question number	Answer	Additional guidance	Mark
8 (a)(ii)	select / recall (1) (power =) $V \times I$ or (power =) $I^2 \times R$ or (power =) $\frac{V^2}{R}$ substitution and evaluation (1) (power =) 1.4 (W)	 (power =) 4.5×0.3 $0.3^2 \times 15$ $\frac{4.5^2}{15}$ allow 1.3(5) (W) award full marks for the correct answer without working	(2) A02

Question number	Answer	Additional guidance	Mark
8 (b)	<p>an explanation linking any three from:</p> <p>lamp in second circuit is dimmer (than lamp in first circuit) (1)</p> <p>current in second circuit is less (than in first circuit) (1)</p> <p>potential difference / voltage across each lamp (in second circuit is) less / shared (1)</p> <p>idea that power of each lamp (in second circuit) is less / shared (1)</p> <p>the (total) resistance of the second circuit is more (than in first circuit) (1)</p>	<p>accept reverse arguments throughout</p>	<p>(3)</p> <p>A01</p>

Question number	Answer	Additional guidance	Mark
8 (c)	<p>a diagram of a circuit including all of the following: power supply / cell(s) / battery, identifiable resistance wire an ammeter a voltmeter (1)</p> <p>plus any two from</p> <p>ammeter in series (1)</p> <p>voltmeter in parallel (1)</p> <p>indication of tapping off / using 50cm of resistance wire (1)</p>	<p>accept symbols</p> <p>accept ohmmeter with resistance wire only</p> <p>ignore lamp(s) / additional resistors</p> <p>allow ohmmeter (across wire) instead of ammeter and voltmeter for 1 mark</p> <p>e.g. (crocodile) clips</p>	<p>(3)</p> <p>A02</p>

Question number	Answer	Additional guidance	Mark
8 (d)	d.c. - (current) in one direction only (1) a.c. - (current) changes direction (1)	one way both ways	(2) AO1

Total 11 marks

Question number	Answer	Mark			
9 (a)	<table border="1" data-bbox="365 271 1190 327"> <tr> <td data-bbox="365 271 478 327">[x] B</td> <td data-bbox="478 271 857 327">bigger than in water</td> <td data-bbox="857 271 1190 327">less than water</td> </tr> </table> <p data-bbox="352 367 1177 577"> A is incorrect because the density of steam is less than water. C is incorrect because the space between the particles increases. D is incorrect because the space between the particles increases and density of steam is less than water. </p>	[x] B	bigger than in water	less than water	(1) AO1
[x] B	bigger than in water	less than water			

Question number	Answer	Additional guidance	Mark
9 (b)	<p>calculation of change in volume (1) $(530 \text{ cm}^3 - 490 \text{ cm}^3) = 40 \text{ (cm}^3\text{)}$</p> <p>substitution (1) $7.9 = \frac{\text{mass}}{40}$</p> <p>rearrangement and evaluation (1) (mass = 7.9×40) (mass =) 316 (g)</p> <p>evaluation to 2 sig fig (1) 320 (g)</p>	<p>measurement mark – using scale</p> <p>allow use of incorrect volume</p> <p>answers without working</p> <p>316 scores 3 marks</p> <p>0.316 kg scores 3 marks</p> <p>316 to any other power of 10 scores 2 marks</p> <p>4187 or 3871 scores 2 marks (incorrect volume)</p> <p>any answer written to 2sf independent mark</p> <p>answers without working</p> <p>320 scores 4 marks</p> <p>320 to any other power of ten scores 3 marks</p> <p>4200 scores 3 marks 3900 scores 3 marks</p>	<p>(4)</p> <p>A02</p>

Question number	Answer	Additional guidance	Mark
9 (c)	<p>an explanation linking</p> <p>density of wood less (than that of water) (1)</p> <p>less (volume of) water displaced (than volume of wood) (1)</p>	<p>allow wood floats / should be submerged</p> <p>allow wood absorbing water</p> <p>allow (idea of) incorrect volume reading</p> <p>allow (idea that) the volume cannot be measured this way</p>	<p>(2)</p> <p>A02</p>

Question number	Indicative content	Mark
*9(d)	<p>Answers will be credited according to candidate's deployment of knowledge and understanding of the material in relation to the qualities and skills outlined in the generic mark scheme.</p> <p>The indicative content below is not prescriptive and candidates are not required to include all the material which is indicated as relevant. Additional content included in the response must be scientific and relevant.</p> <p>Equipment</p> <ul style="list-style-type: none"> • Thermometer • Measuring cylinder / balance • Power supply • Stirrer • Joule meter / ammeter / voltmeter • Stopwatch / clock <p>Measurements</p> <ul style="list-style-type: none"> • Mass / volume of water • Initial / final / change of temperature of water • Voltage / current / energy / power • Time (heated for) <p>Detail</p> <ul style="list-style-type: none"> • Lid/insulation to reduce energy loss • Ensure heater fully immersed / keep stirring the water • Use of equation $\Delta Q = m \times c \times \Delta\theta$ / calculation of input energy • Repeat and find average • Plot graph of temp change and time / energy <p>Credit can be given for correctly labelled diagrams</p>	<p>(6)</p> <p>AO1</p>

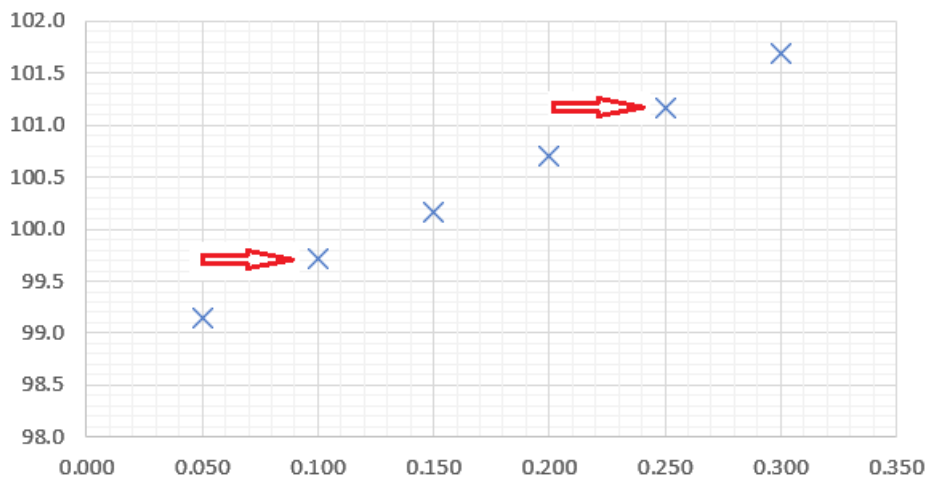
Level	Mark	Descriptor
	0	<ul style="list-style-type: none"> No rewardable material.
Level 1	1-2	<ul style="list-style-type: none"> Demonstrates elements of physics understanding, some of which is inaccurate. Understanding of scientific, enquiry, techniques and procedures lacks detail. (AO1) Presents a description which is not logically ordered and with significant gaps. (AO1)
Level 2	3-4	<ul style="list-style-type: none"> Demonstrates physics understanding, which is mostly relevant but may include some inaccuracies. Understanding of scientific ideas, enquiry, techniques and procedures is not fully detailed and/or developed. (AO1) Presents a description of the procedure that has a structure which is mostly clear, coherent and logical with minor steps missing. (AO1)
Level 3	5-6	<ul style="list-style-type: none"> Demonstrates accurate and relevant physics understanding throughout. Understanding of the scientific ideas, enquiry, techniques and procedures is detailed and fully developed. (AO1) Presents a description that has a well-developed structure which is clear, coherent and logical. (AO1)

Level	Mark	Additional Guidance	General additional guidance – the decision within levels e.g. - At each level, as well as content, the scientific coherency of what is stated will help place the answer at the top, or the bottom, of that level.
	0	No rewardable material.	
Level 1	1–2	<u>Additional guidance</u> one measurement or two items of equipment or one piece of detail	<u>Possible candidate responses</u> measure the temperature of the water to start with or the student needs a power supply and a thermometer or insulated material around the beaker
Level 2	3–4	<u>Additional guidance</u> two items of equipment and at least one measurement or one piece of equipment and two measurements or two items of equipment and one piece of detail or one measurement and one piece of detail	<u>Possible candidate responses</u> The student needs a measuring cylinder to measure the volume of water. They also need a thermometer Or Measure the temperature rise of the water and use a balance to measure the mass or They need a power supply for the heater and a voltmeter. Keep the heater in the water. or Measure temperature rise of the water. Keep stirring the water all the time.
Level 3	5–6	<u>Additional guidance</u> two items of equipment and two measurements and one piece of detail.	<u>Possible candidate responses</u> The student needs a balance to find the mass of water. They also need a thermometer to measure the rise in temperature of the water. Then use the equation $\Delta Q = m \times c \times \Delta\theta$

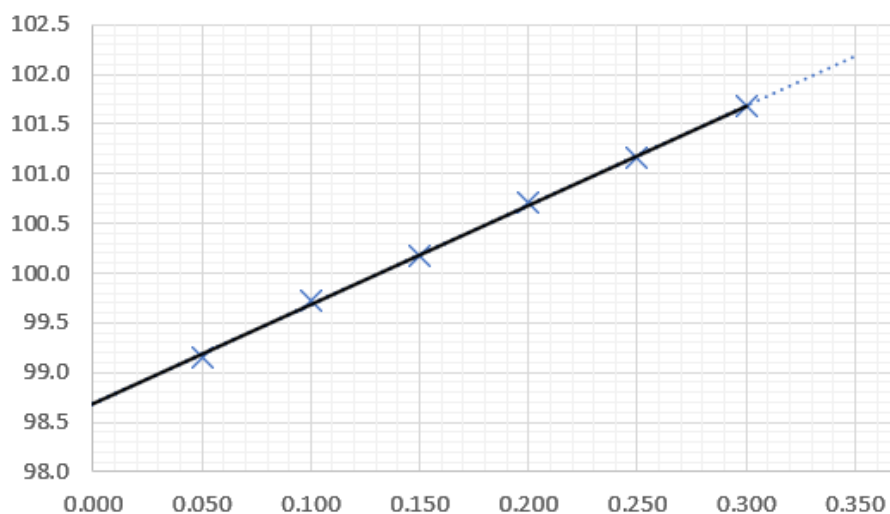
Total 13 marks

Question number	Answer	Additional guidance	Mark
10 (a) (ii)	<p>An explanation linking any two from</p> <p>camel less likely to sink into the soft ground (1)</p> <p>(same) force / weight is distributed / spread out (1)</p> <p>camel's hoof has greater (surface) area (than donkey) (1)</p> <p>camel's hoof exerts less pressure (than it would if hoof were smaller) (1)</p>	<p>ORA for donkey</p> <p>ignore pressure is spread out</p> <p>wider</p> <p>if no other marks scored then allow 1 mark for split in camel hoof enables better grip (as it walks)</p>	<p>(2)</p> <p>A03</p>

Question number	Answer	Additional guidance	Mark
10 (b)(i)	<p>Points plotted to within \pm 1 small square</p> <p>(0.100, 99.7) (1)</p> <p>(0.250, 101.2) (1)</p>		<p>(2)</p> <p>A02</p>



Question number	Answer	Additional guidance	Mark
10 (b)(ii)	best fit straight line passing through at least four of the points (1)	do not accept tramlining (multiple lines / curves) ignore slight shakiness in drawing	(1) AO2



Question number	Answer	Mark
10 (b)(iii)	<p>D $y = mx + c$</p> <p>A is incorrect because the graph is a straight line and this equation describes a parabola. B is incorrect because the line intercepts the Y axis at a positive value and this equation describes a line passing through the origin. C is incorrect because this equation describes a line which intercepts the Y axis at a negative value.</p>	<p>(1)</p> <p>A02</p>

Question number	Answer	Additional guidance	Mark
10 (b)(iv)	answer between 98.6 and 98.8 (kPa)	allow ecf from their line of best fit in b(ii)	<p>(1)</p> <p>A03</p>

Question number	Answer	Additional guidance	Mark
10 (c)	<p>any two from</p> <p>pressure(s) would be greater (values) (1)</p> <p>steeper gradient of graph (1)</p> <p>both straight lines (1)</p> <p>intercept (on pressure axis) the same (1)</p>	<p>credit mark points seen on graph</p> <p>bigger gradient / steeper line (of best fit)</p> <p>both linear</p> <p>pressure at surface is the same</p>	<p>(2)</p> <p>A03</p>

Total 11 marks

Total for paper = 100 marks