

Unit Code: J249/03

Qual Name: GCSE Physics A (Gateway)

Qual Title: P1-P4 and P9 Higher Tier

Question Set	Q. No	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
1	1ai	1	AO1	3.2b	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
1	1aii	1	AO1	3.2e	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
1	1bi	1	AO3	3.2h	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
1	1bii	3	AO1, AO2, AO3	3.2g,h	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
1	1ci	2	AO2	3.2j	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
1	1cii	3	AO1, AO2	3.2m	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Foundation Tier		
2	1ai	3	AO1	4.1e	Magnets and Magnetic fields	This question is about magnetic fields	Overlap Question with Foundation Tier		
2	1aii	2	AO2	4.1e	Magnets and Magnetic fields	This question is about magnetic fields	Overlap Question with Foundation Tier		
2	1b	2	AO1	4.1e	Magnets and Magnetic fields	This question is about magnetic fields	Overlap Question with Foundation Tier		
3	1ai	3	AO1	P3.1b, P3.1c,P2.3i	Static and Charge	This question is about static electricity and electric charge		Y	
3	1aii	2	AO1	P3.1e	Static and Charge	This question is about static electricity and electric charge		Y	Y
3	1bi	4	AO1, AO2	P3.1g	Static and Charge	This question is about static electricity and electric charge			Y
4	1ai	2	AO3	P3.2c,d	Simple Circuits	This question is about an experiment to determine resistance			Y
4	1aii	2	AO3	P3.2c,d	Simple Circuits	This question is about an experiment to determine resistance			Y
4	1aiii	2	AO3	P3.2c,d	Simple Circuits	This question is about an experiment to determine resistance			Y
4	1aiv	2	AO3	P3.2g,h	Simple Circuits	This question is about an experiment to determine resistance			Y
4	1bi	2	AO3	P3.2f	Simple Circuits	This question is about an experiment to determine resistance		Y	Y

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4	1bii	1	AO3	P3.2f	Simple Circuits	This question is about an experiment to determine resistance			Y
5	1ai	2	AO2	P2.3c	Forces in action	This question is about an experiment to investigate springs			Y
5	1aii	1	AO3	P2.3c	Forces in action	This question is about an experiment to investigate springs		Y	
5	1aiii	3	AO1, AO3	P2.3d	Forces in action	This question is about an experiment to investigate springs		Y	
5	1b	3	AO1, AO2	P2.3e	Forces in action	This question is about an experiment to investigate springs			
5	1c	2	AO1, AO2	P2.3f	Forces in action	This question is about an experiment to investigate springs			
6	1a	6	AO1, AO2, AO3	P1.2f	Changes of state	This question is about moments	LoR Question		Y
6	1b	3	AO1, AO2	P1.2f	Changes of state	This question is about moments		Y	
7	1a	2	AO1	P2.2k	Newton's Laws	This question is about momentum collisions			
7	1bi	3	AO1, AO2	P2.2k	Newton's Laws	This question is about momentum collisions		Y	
7	1bii	3	AO1, AO2	P2.2k	Newton's Laws	This question is about momentum collisions		Y	
8	1ai	3	AO1	P2.1h	Motion	This question is about uniform motion		Y	
8	1aii	2	AO2	P2.1h	Motion	This question is about uniform motion		Y	
8	1b	4	AO1, AO2	P2.2c, f, g	Newton's Laws	This question is about uniform motion			
9	1ai	1	AO3	P1.2a	Change of State	This question is about change of state and specific heat capacity			Y
9	1aii	2	AO1	P1.2a	Change of State	This question is about change of state and specific heat capacity			
9	1b	1	AO1	P1.2b	Change of State	This question is about change of state and specific heat capacity			
9	1ci	3	AO2	P1.2c/1.2d	Change of State	This question is about change of state and specific heat capacity			Y
9	1cii	1	AO3	P1.2c/1.2d	Change of State	This question is about change of state and specific heat capacity			Y
9	1ciii	2	AO3	P1.2c/1.2d	Change of State	This question is about change of state and specific heat capacity			Y
10	1a	4	AO1, AO2	P3.2m	Simple Circuits	This question is about electrical power and energy		Y	
10	1b	4	AO1, AO2	P3.2m	Simple Circuits	This question is about electrical power and energy		Y	

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11	1a	3	AO1, AO2	P2.3c, e	Forces in action	This question is about the stretching of a spring		Y	Y
11	1b	2	AO1	P2.3c, e	Forces in action	This question is about the stretching of a spring			
11	1c	2	AO2	P2.3a, f, h	Forces in action	This question is about the stretching of a spring			
12	1ai	2	AO3	P3.2b, f	Simple Circuits	This question is about electrical circuits and quantities			Y
12	1aii	1	AO1	P3.2b, k	Simple Circuits	This question is about electrical circuits and quantities			Y
12	1bi	3	AO1, AO2	P3.2d, m	Simple Circuits	This question is about electrical circuits and quantities		Y	
12	1bii	4	AO1, AO2	P3.1g	Static and Charge	This question is about electrical circuits and quantities		Y	
12	1biii	2	AO2	P3.2m	Simple Circuits	This question is about electrical circuits and quantities		Y	
13	1a	6	AO1, AO3	P4.2g, h, i	Uses of Magnetism	This question is about transformers and the applications of magnetic fields	LoR Question	Y	
13	1bi	1	AO2	P4.2j	Uses of Magnetism	This question is about transformers and the applications of magnetic fields			
13	1bii	1	AO1	P4.2j	Uses of Magnetism	This question is about transformers and the applications of magnetic fields			
14	1ai	2	AO1	P2.1b	Motion	This question is about interpreting data from an experiment to measure speed.		Y	Y
14	1aii	3	AO3	P2.1b	Motion	This question is about interpreting data from an experiment to measure speed.		Y	Y
14	1aiii	2	AO1	P2.2i/2.2m	Newton's Laws	This question is about interpreting data from an experiment to measure speed.			Y
14	1aiv	2	AO3	P2.1b	Motion	This question is about interpreting data from an experiment to measure speed.			Y
14	1av	2	AO2	P2.1b	Motion	This question is about interpreting data from an experiment to measure speed.			Y
14	1bi	5	AO1, AO2	PM2.1iii/P2.1h	Motion	This question is about interpreting data from an experiment to measure speed.		Y	Y

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14	1bii	3	AO1, AO2	PM2.1iv	Motion	This question is about interpreting data from an experiment to measure speed.		Y	
15	1ai	3	AO3	P1.3d	Pressure	This question is about pressure in fluids		Y	
15	1aii	3	AO1	P1.3b	Pressure	This question is about pressure in fluids			
15	1b	3	AO1, AO2	P1.3j, P2.3h	Pressure	This question is about pressure in fluids		Y	
16	1ai	3	AO1	1.2e	Changes of State	This question is about a specific heat capacity experiment	Overlap Question with Foundation Tier		Y
16	1aii	2	AO2	1.2e	Changes of State	This question is about a specific heat capacity experiment	Overlap Question with Foundation Tier		Y
16	1b	4	AO3	1.2e	Changes of State	This question is about a specific heat capacity experiment	Overlap Question with Foundation Tier		Y
17	1a	6	AO1, AO2	3.1b,c	Static electricity	This question is about static electricity and electric charge	Overlap Question with Foundation Tier; LoR Question		Y
17	1b	3	AO2	3.1e	Electric charge	This question is about static electricity and electric charge	Overlap Question with Foundation Tier	Y	
18	1a	1	AO2	1.3i	Pressure	This question is about liquid pressure			
18	1b	2	AO3	1.3j	Pressure	This question is about liquid pressure			
18	1c	1	AO2	1.3j	Pressure	This question is about liquid pressure			
18	1d	4	AO1, AO2	1.3j	Pressure	This question is about liquid pressure		Y	
19	1a	2	AO3	P3.2d	Simple Circuits	This question is about the resistance of resistors and a lamp			
19	1b	1	AO3	P3.2m	Simple Circuits	This question is about the resistance of resistors and a lamp		Y	
19	1ci	4	AO1, AO2	P3.2c,d	Simple Circuits	This question is about the resistance of resistors and a lamp			Y
19	1cii	2	AO1, AO2	P3.2h	Simple Circuits	This question is about the resistance of resistors and a lamp			
19	d	2	AO1	P3.2h	Simple Circuits	This question is about the resistance of resistors and a lamp			
20	1ai	3	AO2	2.2i	Newton's Law	This question is about an experiment to investigate Newton's second law			Y
20	1aii	1	AO2	2.2i	Newton's Law	This question is about an experiment to investigate Newton's second law		Y	

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20	1aii	2	AO3	2.2i	Newton's Law	This question is about an experiment to investigate Newton's second law			
20	1b	2	AO1, AO3	2.2i	Newton's Law	This question is about an experiment to investigate Newton's second law			
20	1c	1	AO1	2.2i	Newton's Law	This question is about an experiment to investigate Newton's second law			
21	1ai	1	AO1	4.2b	Uses of Magnetism	This question is about the uses of magnetism			
21	1aii	2	AO3	4.2c	Uses of Magnetism	This question is about the uses of magnetism		Y	
21	1bi	4	AO1, AO2	4.2g,h	Uses of Magnetism	This question is about the uses of magnetism			Y
21	1bii	2	AO1, AO3	4.2g	Uses of Magnetism	This question is about the uses of magnetism			
21	1c	2	AO1	4.2j	Uses of Magnetism	This question is about the uses of magnetism			
22	1a	1	AO1	P2.2k	Newton's Laws	This question is about momentum			
22	1b	2	AO2	P2.2k	Newton's Laws	This question is about momentum			
23	1	4	AO1, AO3	2.2l	Newton's Laws	This question is about kinetic energy			Y
24	1a	3	AO1, AO2	2.1e	Motion	This question is about velocity time graphs		Y	
24	1b	2	AO1	2.1f	Motion	This question is about velocity time graphs		Y	
24	1c	6	AO2	2.2d	Newton's Laws	This question is about velocity time graphs			
25	1	1	AO1	1.1f	The Particle Model				
25	2	1	AO2	1.1f	The Particle Model			Y	
25	3	1	AO1	1.1a	The Particle Model				
25	4	1	AO2	1.3c	The Particle Model				
25	5	1	AO1	1.3h	The Particle Model				
25	6	1	AO1	1.1c	The Particle Model				
25	7	1	AO2	1.1f	The Particle Model				
26	1	1	AO2	2.1h	Motion				
26	2	1	AO2	2.2e	Newton's Laws				
26	3	1	AO2	2.3l	Forces in action			Y	
26	4	1	AO2	2.3m	Forces in action				
26	5	1	AO2	2.2i	Newton's Laws				

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26	6	1	AO2	2.3f	Forces in action				
26	7	1	AO2	2.3l	Forces in action			Y	
26	8	1	AO1	2.2m	Newton's Laws				Y
26	9	1	AO2	2.1f	Motion			Y	
26	10	1	AO1	2.2j	Newton's Laws				
26	11	1	AO2	2.1d	Motion			Y	
26	12	1	AO2	2.1e	Motion			Y	
26	13	1	AO2	2.3l	Forces in action			Y	
26	14	1	AO2	2.2k	Newton's Laws			Y	
26	15	1	AO1	2.3h	Forces in action				
26	16	1	AO2	2.3h	Forces in action			Y	
26	17	1	AO2	2.3j	Forces in action				
26	18	1	AO1	2.3m	Forces in action			Y	
26	19	1	AO1	2.2e	Newton's Laws				
26	20	1	AO2	2.1f	Motion			Y	
26	21	1	AO2.AO1	2.2f	Balanced Forces				
26	22	1	AO2.AO1	2.3f	Springs			Y	
27	1	1	AO2	3.2d	Simple Circuits				
27	2	1	AO2	3.2m	Simple Circuits				
27	3	1	AO2	3.2m	Simple Circuits				
27	4	1	AO1	3.1f	Static and Charge				
27	5	1	AO1	3.2h	Simple Circuits				
27	6	1	AO1	3.1f	Static and Charge				Y
27	7	1	AO1	3.1d	Static and Charge				
28	1	1	AO1	4.1e	Magnets and magnetic fields				
28	2	1	AO1	4.2f	Uses of magnetism				Y
28	3	1	AO2	4.1f	Magnets and magnetic fields				
28	4	1	AO1	4.2b	Uses of magnetism				
28	5	1	AO2	4.2b	Uses of magnetism				
28	6	1	AO2	4.2h	Uses of magnetism			Y	
28	7	1	AO1	4.1g	Magnets and magnetic fields				Y
28	8	1	AO2	4.2c	Uses of magnetism			Y	
28	9	1	AO1	4.1f	Magnets and magnetic fields				