

Unit Code: J249/01
Qual Name: GCSE Physics A (Gateway)
Qual Title: P1-P4 and P9 Foundation

Question Set	Q. No	Total Marks	AO	Spec Ref.	Topic	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
1	1ai	1	AO3	3.2l,m	Simple Circuits	This question is about electrical power in the home		Y	
1	1aii	1	AO3	3.2l,m	Simple Circuits	This question is about electrical power in the home			
1	1b	2	AO2	3.2f	Simple Circuits	This question is about electrical components in the home			
1	1c	4	AO2	3.2m	Simple Circuits	This question is about electric charge		Y	
1	1di	2	AO3	3.1a,b,c	Static and Charge	This question is about static electricity			
1	1dii	1	AO1	3.1f	Static and Charge	This question is about circuits			
2	1ai	2	AO1	1.1b	The Particle Model	This question is about atoms			
2	1aii	2	AO1	1.1a	The Particle Model	This question is about atoms			
2	1bi	2	AO1	1.1d,f	The Particle Model	This question is about comparing densities		Y	
2	1bii	2	AO3	1.1d,f	The Particle Model	This question is about comparing densities			
3	1ai	1	AO1	1.2d,e	Changes of State	This question is about a specific heat capacity experiment		Y	Y
3	1aii	3	AO3	1.2d,e	Changes of State	This question is about a specific heat capacity experiment			Y
3	1bi	2	AO3	1.2d,e	Changes of State	This question is about a specific heat capacity experiment			Y
3	1bii	4	AO3	1.2d,e	Changes of State	This question is about a specific heat capacity experiment			Y
4	1	6	AO1, AO2, AO3	2.1b,h,i	Motion	This question is about the speed of runners in a race.	LoR Question	Y	
5	1a	1	AO1	2.2a	Newton's Laws	This question is about forces and motion			
5	1b	4	AO2	2.2c	Newton's Laws	This question is about forces and motion			
5	1c	2	AO1	2.2d	Newton's Laws	This question is about forces and motion			Y
5	1di	2	AO1, AO2	2.2i	Newton's Laws	This question is about forces and motion			
5	1dii	3	AO2	2.1h	Motion	This question is about forces and motion		Y	
6	1ai	3	AO1, AO2	2.3l	Forces in action	This question is about moments		Y	

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6	1aii	3	AO1, AO2	2.3l	Forces in action	This question is about moments		Y	
6	1bi	3	AO1, AO2	2.3o	Forces in action	This question is about pressure		Y	
6	1bii	1	AO1	2.3n	Forces in action	This question is about pressure			
7	1ai	1	AO1	3.2b	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier		Y
7	1aii	1	AO1	3.2e	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier		Y
7	1bi	1	AO3	3.2h	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier		Y
7	1bii	3	AO1, AO2, AO3	3.2g,h	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier	Y	Y
7	1ci	2	AO2	3.2j	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier	Y	Y
7	1cii	3	AO1, AO2	3.2m	Simple Circuits	This question is about electrical components in a circuit.	Overlap Question with Higher Tier	Y	
8	1ai	3	AO1	4.1e	Magnets and magnetic fields	This question is about magnetic fields	Overlap question with Higher Tier		Y
8	1aii	2	AO2	4.1e	Magnets and magnetic fields	This question is about magnetic fields	Overlap question with Higher Tier		
8	1b	2	AO1	4.1e	Magnets and magnetic fields	This question is about magnetic fields	Overlap question with Higher Tier		
9	1ai	1	AO2	P2.1e	Motion	This question is about motion		Y	
9	1aii	1	AO2	P2.1e	Motion	This question is about motion		Y	
9	1aiii	1	AO1	P2.1a	Motion	This question is about motion			Y
9	1bi	2	AO1, AO2	P2.1e	Motion	This question is about motion			
9	1bii	2	AO1, AO2	P2.1e	Motion	This question is about motion			
9	1c	2	AO2	P2.1e,h	Motion	This question is about motion		Y	
10	1ai	3	AO3	3.2b,f	Simple Circuits	This question is about an electrical circuit.			Y
10	1aii	1	AO3	3.2a,b	Simple Circuits	This question is about an electrical circuit.			Y
10	1b	4	AO1, AO2	3.2j,m	Simple Circuits	This question is about an electrical circuit.		Y	Y
10	1c	3	AO1, AO2	3.1g	Static and Charge	This question is about an electrical circuit.		Y	
11	1a	3	AO1	P2.3c	Forces in action	This question is about forces			Y
11	1b	2	AO2	P2.3o	Forces in action	This question is about forces		Y	

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11	1c	2	AO1	P2.3a	Forces in action	This question is about forces			
11	1d	2	AO1	P2.3b	Forces in action	This question is about forces			
12	1ai	1	AO1	P2.2o	Newton's Laws	This question is about the time, power and work done of a lift.		Y	
12	1aii	2	AO1, AO3	P2.2o	Newton's Laws	This question is about the time, power and work done of a lift.		Y	
12	1aiii	2	AO1, AO3	P2.2o	Newton's Laws	This question is about the time, power and work done of a lift.			
12	1bi	4	AO1, AO2	P2.2o	Newton's Laws	This question is about the time, power and work done of a lift.		Y	
12	1bii	3	AO1, AO2	P2.2m	Newton's Laws	This question is about the time, power and work done of a lift.		Y	
13	1a	3	AO1	P4.1a	Magnets and magnetic fields	This question is about the magnetic fields of bar magnets and solenoids			
13	1b	1	AO1	P4.1b	Magnets and magnetic fields	This question is about the magnetic fields of bar magnets and solenoids			
13	1c	2	AO3	P4.1g	Magnets and magnetic fields	This question is about the magnetic fields of bar magnets and solenoids			
14	1a	6	AO3	P2.1a,b	Motion	This question is about motion	LoR Question		Y
14	1b	4	AO2	2.1h	Motion	This question is about motion		Y	
15	1ai	1	AO3	P1.2a	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		Y
15	1aii	2	AO1	P1.2a	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		
15	1b	1	AO1	P1.2b	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		
15	1ci	3	AO2	P1.2c/1.2d	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		Y
15	1cii	1	AO3	P1.2c/1.2d	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		Y
15	1ciii	2	AO3	P1.2c/1.2d	Changes of State	This question is about change of state and specific heat capacity	Overlap question with Higher Tier		Y
16	1a	4	AO1, AO2	P3.2m	Simple Circuits	This question is about electrical power and energy	Overlap question with Higher Tier	Y	
16	1b	4	AO1, AO2	P3.2m	Simple Circuits	This question is about electrical power and energy	Overlap question with Higher Tier	Y	
17	1ai	1	AO1	2.1a,b	Motion	This question is about the motion of a train			Y
17	1aii	1	AO1	2.1a,b	Motion	This question is about the motion of a train			Y
17	1b	4	AO1, AO2	2.1h	Motion	This question is about the motion of a train		Y	
17	1ci	1	AO1	2.1d	Motion	This question is about the motion of a train			

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17	1cii	1	AO1	2.1d	Motion	This question is about the motion of a train			
17	1d	4	AO2	2.1e	Motion	This question is about the motion of a train		Y	
18	1ai	3	AO1	4.1c	Magnets and Magnetic Fields	This question is about magnetic fields			Y
18	1aaii	2	AO2	4.1c	Magnets and Magnetic Fields	This question is about magnetic fields			Y
18	1b	1	AO3	4.1c	Magnets and Magnetic Fields	This question is about magnetic fields			
18	1c	2	AO1	4.1c	Magnets and Magnetic Fields	This question is about magnetic fields			
18	1d	2	AO3	4.1f	Magnets and Magnetic Fields	This question is about magnetic fields			
19	1a	2	AO3	2.2m	Newton's Laws	This question is about an experiment investigating the work done in moving a trolley		Y	Y
19	1b	1	AO3	2.2m	Newton's Laws	This question is about an experiment investigating the work done in moving a trolley			Y
19	1c	2	AO1	2.2m	Newton's Laws	This question is about an experiment investigating the work done in moving a trolley			Y
19	1d	4	AO1, AO2	2.2o	Newton's Laws	This question is about an experiment investigating the work done in moving a trolley		Y	Y
20	1	6	AO1, AO2	1.1f	The Particle Model	This question is about density		Y	
21	1a	2	AO3	2.3c,e	Forces in action	This question is about a spring experiment			
21	1b	2	AO3	2.3d	Forces in action	This question is about an experiment to investigate Newton's second law			
21	1ci	2	AO2	2.3f	Forces in action	This question is about an experiment to investigate Newton's second law		Y	
21	1cii	4	AO2	2.3c	Forces in action	This question is about an experiment to investigate Newton's second law			Y
21	1ciii	2	AO3	2.3e	Forces in action	This question is about an experiment to investigate Newton's second law			Y
22	1a	3	AO1.A O2	3.2b, f	Resistance	This question is about resistance			Y
22	1b	3	AO2.A O1	3.2d	Resistance	This question is about the uses of magnetism		Y	
22	1ci	1	AO3.A O2	3.2j	Resistance	This question is about the uses of magnetism			

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22	1cii	1	AO3.A O1	3.2j	Resistance	This question is about the uses of magnetism			
23	1ai	3	AO1	1.2e	Changes of state	This question is about a specific heat capacity experiment	Overlap Question		Y
23	1aaii	2	AO2	1.2e	Changes of state	This question is about a specific heat capacity experiment	Overlap Question		Y
23	1b	4	AO3	1.2e	Changes of state	This question is about a specific heat capacity experiment	Overlap Question		
24	1a	6	AO1, AO2	3.1b,c	Static and Charge	This question is about static electricity and electric charge	Overlap with Higher Tier; LoR Question		Y
24	1b	3	AO2	3.1e	Static and Charge	This question is about static electricity and electric charge	Overlap with Higher Tier	Y	
25	1	1	AO2	1.3b	Pressure in a gas				
25	2	1	AO1	1.3a	Pressure in a gas				
25	3	1	AO1	1.3b	Pressure in a gas			Y	
25	4	1	AO1	1.2c	Change of state			Y	
25	5	1	AO1	1.3a	Particles				
25	6	1	AO2	1.1e	Change of state				
25	7	1	AO2	1.3d	Pressure in a gas				
25	8	1	AO2	1.1f	Density				
26	1	1	AO2	2.1h	Motion			Y	
26	2	1	AO2	2.3h	Forces in action			Y	
26	3	1	AO2	2.3l	Forces in action			Y	
26	4	1	AO1	2.2o	Newton's Laws				
26	5	1	AO2	2.3o	Forces in action				
26	6	1	AO2	2.2l	Newton's Laws			Y	
26	7	1	AO1	2.3a	Forces in action				
26	8	1	AO2	2.3m	Forces in action				
26	9	1	AO1	2.3h	Forces in action				
26	10	1	AO2	2.3m	Forces in action			Y	
26	11	1	AO1	2.3a	Forces in action				
26	12	1	AO1	2.3c	Forces in action				
26	13	1	AO2	2.1k	Motion			Y	
26	14	1	AO2	2.2m	Newton's Laws			Y	
26	15	1	AO2	2.3k	Forces in action				
26	16	1	AO1	2.1d	Motion				
26	17	1	AO2	PM2.1iv	Kinetic energy			Y	

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26	18	1	AO1	2.1c	Motion			Y	
26	19	1	AO2	2.3k,l	Forces in action				
26	20	1	AO2	2.1g	Motion				
26	21	1	AO1	2.2p	Newton's laws of motion				
26	22	1	AO2	2.3h	Gravitational field strength				
26	23	1	AO1	2.3m	Gears				
26	24	1	AO1	2.1c	Speed				
26	25	1	AO1	2.3k	Moments				
27	1	1	AO1	3.2f	Electricity				
27	2	1	AO2	3.2j	Electricity				
27	3	1	AO2	3.2b	Electricity				
27	4	1	AO2	3.1f	Electricity				
27	5	1	AO2	3.2i	Electricity				
27	6	1	AO1	3.1b	Electricity				
27	7	1	AO2	3.2h	Electricity				Y
27	8	1	AO2	3.2i	Electricity				Y
27	9	1	AO1	3.1e	Electricity				
28	1	1	AO2	4.1a	Magnets and magnetic fields				
28	2	1	AO1	4.1g	Magnets and magnetic fields				
28	3	1	AO1	4.1a	Magnets and magnetic fields				