Unit Code:J249/04Qual Name:GCSE Physics A (Gateway)Qual Title:P5-P8 and P9 Higher

Question Set	Q. No	Total Marks	AO	Spec Ref.	Торіс	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
1	1ai	1	AO3	P8.2b	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier	Y	
1	1aii	1	AO3	P8.2b	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier	Y	
1	1aiii	2	AO3	P8.2a, P8.2b	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier	Y	
1	1bi	2	AO3	P8.2a, p8.2b	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1bii	2	AO3	P8.2a, P6.2 c/d, 8.2b	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1ci	1	AO1	P8.2d	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1cii	1	AO1	P8.2d	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1ciii	2	AO1	P8.2g, h	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1di	4	AO1, AO2	P8.2b, P3.2m	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier	Y	
1	1dii	1	AO2	P8.1a, P7.2c	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
1	1diii	1	AO2	P8.2a	Powering Earth	This question is about energy resources to produce electricity	Overlap with Foundation Tier		
2	1ai	1	AO1	P5.1a	Wave Behaviour	This question is about water waves and sound waves.		Y	Y
2	1aii	2	AO2	P5.1c	Wave Behaviour	This question is about water waves and sound waves.			Y
2	1aiii	2	AO1	P5.1k	Wave Behaviour	This question is about water waves and sound waves.			
2	1b	5	AO1, AO2, AO3	P5.1j + P2.1b	Wave Behaviour	This question is about water waves and sound waves.			Y
2	1c	3	AO1, AO2	5.1h	Wave Behaviour	This question is about water waves and sound waves.			

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3	1aii	2	AO1, AO2, AO3	P5.2c	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses		Y	
3	1aii	3	AO1, AO2, AO3	P5.2c	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses		Y	
3	1b	1	AO1	P5.2h	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses			
3	1ci	1	AO2	P5.2h	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses		Y	
3	1cii	2	AO1	P52h	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses			
3	1d	6	AO1, AO2, AO3	P5.2g,h,i	The Electromagnetic Spectrum	This question is about electromagnetic waves and their uses	LoR Question		
4	1a	2	AO1	P6.2a	Uses and hazards	This question is about decay, uses and hazards of radioactivity.			
4	1b	2	AO2	P6.2a	Uses and hazards	This question is about decay, uses and hazards of radioactivity.			
4	1c	2	AO2	P6.2c	Uses and hazards	This question is about decay, uses and hazards of radioactivity.			
4	1di	1	AO1	P6.1d	Radioactive Emissions	This question is about decay, uses and hazards of radioactivity.			
4	1dii	1	AO1	P6.1b	Radioactive Emissions	This question is about decay, uses and hazards of radioactivity.			
4	1ei	2	AO2	P6.1e + P6.1g	Radioactive Emissions	This question is about decay, uses and hazards of radioactivity.		Y	
4	1eii	2	AO2	P6.1e + P6.1g	Radioactive Emissions	This question is about decay, uses and hazards of radioactivity.		Y	
4	1eiii	2	AO2	P6.1e + P6.1g	Radioactive Emissions	This question is about decay, uses and hazards of radioactivity.		Y	
5	1a	1	AO3	P8.1e	Physics on the move	This question is about stopping distances		Y	
5	1b	3	AO1, AO2, AO3	P8.1e+f, P2.1g	Physics on the move	This question is about forces and motion		Y	Y
5	1c	2	AO3	P8.1e+f, P2.1g	Physics on the move	This question is about forces and motion		Y	Y
5	1di	2	AO1, AO2	P7.1d+e, PM2.1iv	Work done	This question is about stopping distances		Y	
5	1dii	2	AO1, AO2		Work done	This question is about forces and motion			

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5	1diii	3	AO1, AO2	P7.1d, P2.1iv	Work done	This question is about forces and motion		Y	
5	1e	2	AO3	P8.1f	Physics on the move	This question is about stopping distances		Y	Y
6	1a	3	AO1, AO2	P7.1d	Work done	This question is about electrical power and energy transfer	Overlap with Foundation Tier	Y	
6	1b	3	AO1, AO2	P7.2c, P3.2m	Power and Efficiency	This question is about electrical power and energy transfer	Overlap with Foundation Tier	Y	
7	71a	2	AO3	P8.1e	Physics on the move	This question is about thinking and braking distances	Overlap with Foundation Tier	Y	
7	1bi	1	AO3	P8.1e	Physics on the move	This question is about thinking and braking distances	Overlap with Foundation Tier	Y	
7	1bii	3	AO1, AO2	P8.1d, P8.1e, P2.1h	Physics on the move	This question is about thinking and braking distances	Overlap with Foundation Tier	Y	
7	1ci	1	AO1	P8.1e	Physics on the move	This question is about thinking and braking distances	Overlap with Foundation Tier		
7	1cii	2	AO2	P8.1e	Physics on the move	This question is about thinking and braking distances	Overlap with Foundation Tier	Y	
7	1d	3	AO2, AO3	P7.1e, P8.1e, P8.1f	Work done	This question is about thinking and braking distances	Overlap with Foundation Tier	Y	
8	1a	2	AO1	P5.3c+d, P5.1g	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			Y
8	1b	2	AO1	P5.3c+d, P5.1g	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			Y
8	1ci	1	AO3	P5.3e	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			Y
8	1cii	1	AO3	P5.3e	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			Y
8	1di	1	AO2	P5.3e	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			
8	1dii	1	AO2	P5.3e	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			

Question Set	Q.	Total Marks	AO	Spec Ref.	Торіс	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
8	1ei	1	AO1	P5.3a, P5.3b, P5.3c	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			Y
8	1eii	1	AO2	P5.3c	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			
8	1eiii	2	AO3	P5.3c	Wave Interaction	This question is about ray diagrams and the transmission and absorption of colour			
9	1aii	1	AO1	P6.2e	Uses and Hazards	This question is about fission and fusion			
9	1aii	1	AO2	P8.3c	Beyond Earth	This question is about fission and fusion			
9	1bi	1	AO3	P6.2d, P6.2e	Uses and Hazards	This question is about fission and fusion			
9	1bii	1	4	P6.2d, P6.2e	Uses and Hazards	This question is about fission and fusion			
9	1c	2	5	P8.2a	Powering Earth	This question is about fission and fusion			
10	1a	2	AO1	P5.2j, P8.2g	High voltage energy transfer	This question is about high voltage energy transfer			
10	1b	2	AO1	P8.2e, P8.2c	High voltage energy transfer	This question is about high voltage energy transfer			
10	1c	5	AO1, AO2	P8.2e, P3.2m	High voltage energy transfer	This question is about high voltage energy transfer		Y	
11	1ai	1	AO3	P8.1e,P2. 1f	Physics on the move	This question is about the stopping a moving car.			
11	1aii	2	AO1	P8.1e,P2. 1f, P2.1e	Physics on the move	This question is about the stopping a moving car.		Y	
11	1bi	1	AO1	P8.1d	Physics on the move	This question is about the stopping a moving car.			Y
11	1bii	1	AO1	P8.1d	Physics on the move	This question is about the stopping a moving car.			Y
11	1ci	2	AO2	P7.1b	Work done	This question is about the stopping a moving car.			
11	1cii	1	AO2	P7.1b, P8.1e	Work done	This question is about the stopping a moving car.			
12	1	6	AO2, AO3	P8.3i, P5.2i, P1.3i	Beyond Earth	This question is about seismic waves	LoR Question		
13	1a	2	AO2	P6.1j+k	Radioactive Emissions	This question is about radioactive half- life		Y	

Question Set	Q.	Total Marks	AO	Spec Ref.	Торіс	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
13	1b	2	AO2	P6.1j+k	Radioactive Emissions	This question is about radioactive half- life		Y	
13	1c	2	AO2	P6.1j	Radioactive Emissions	This question is about radioactive half- life			
14	1ai	1	AO1	P5.1j, P2.1b	Wave Behaviour	This question is about the determination to measure the speed of sound		Y	Y
14	1aii	4	AO1, AO2	P5.1j, P2.1b	Wave Behaviour	This question is about the determination to measure the speed of sound		Y	Y
14	1aiii	2	AO3	P5.1j	Wave Behaviour	This question is about the determination to measure the speed of sound			Y
14	1b	3	AO2	P5.1g, P5.2i	Wave Behaviour	This question is about the determination to measure the speed of sound			
15	1a	1	AO2	5.1e	Wave Behaviour	This question is about waves	Overlap with Foundation Tier		
15	1bi	2	AO1	5.1a	Wave Behaviour	This question is about waves	Overlap with Foundation Tier		
15	1bii	3	AO1, AO2	5.1d	Wave Behaviour	This question is about waves	Overlap with Foundation Tier	Y	
15	1c	3	AO1, AO2	5.1g	Wave Behaviour	This question is about waves	Overlap with Foundation Tier		
15	1d	3	AO1	5.2g,h	The Electromagnetic Spectrum	This question is about waves	Overlap with Foundation Tier		
16	1a	2	AO2	7.1d	Work done	This question is about energy transfers.	Overlap with Foundation Tier	Y	
16	1b	2	AO3	7.2d	Power and Efficiency	This question is about energy transfers.	Overlap with Foundation Tier		
17	1a	1	AO3	6.2c	Uses and Hazards	This question is about the uses of nuclear radiations			
17	1b	2	AO3	6.2c	Uses and Hazards	This question is about the uses of nuclear radiations			
17	1c	2	AO2	6.2c	Uses and Hazards	This question is about the uses of nuclear radiations			
18	1	6	AO1, AO3	8.3a, b	Beyond Earth	This question is about decay, uses and hazards of radioactivity.	LoR Question		
19	1a	1	AO3	7.1d	Work done	This question is about conservation of energy and efficiency			Y
19	1b	2	AO3	7.2d	Power and Efficiency	This question is about conservation of energy and efficiency			Y
19	1c	2	AO1, AO2	7.1a	Work done	This question is about conservation of energy and efficiency			Y
20	1a	4	AO1, AO2	P7.1d	Work done	This question is about specific heat capacity and efficiency		Y	
20	1b	4	AO1, AO2		Power and Efficiency	This question is about specific heat capacity and efficiency		Y	
21	1a	3	AO1	8.3e	Beyond Earth	This question is about Satellites			

Question Set	Q.	Total Marks	AO	Spec Ref.	Торіс	Question Subject, If required	Additional Notes/Comments	Maths	Practical Assessment
21	1bi	2	AO1	8.3f	Beyond Earth	This question is about Satellites			
21	1bii	2	A01	8.3g	Beyond Earth	This question is about Satellites			
22	1a	3	AO1	8.2c,d	Powering Earth	This question is about electrical power transmission			
22	1b	2	AO1, AO2	8.2f	Powering Earth	This question is about electrical power transmission		Y	
22	1ci	2	AO1, AO2	8.2f	Powering Earth	This question is about electrical power transmission			Y
22	1cii	2	AO2, AO3	8.2f	Powering Earth	This question is about electrical power transmission		Y	
23	1a	2	AO3	6.11	Radioactive Emissions	This question is about a radioactivity experiment and the treatment of a brain cancer			Y
23	1b	3	AO3	6.11	Radioactive Emissions	This question is about a radioactivity experiment and the treatment of a brain cancer			Y
23	1c	4	AO3	6.2c	Uses and Hazards	This question is about a radioactivity experiment and the treatment of a brain cancer			
24	1a	2	AO1, AO3	8.1f	Physics on the move	This question is about stopping distances			
24	1b	2	AO1, AO3	8.1i	Physics on the move	This question is about stopping distances		Y	
24	1c	2	AO2	8.1i	Physics on the move	This question is about stopping distances		Y	
24	1d	4	AO2	8.1e	Physics on the move	This question is about stopping distances			
25	1	1	AO1	5.1f	Wave Behaviour				
25	2	1	AO1	5.1g	Wave Behaviour				
25	3	1	AO1	5.1j	Wave Behaviour				Y
25	4	1	AO2	5.1g	Wave Behaviour				Y
25	5	1	AO1	5.3b	Wave Interaction				
25	6	1	AO2	5.1f	Wave Behaviour				
25	7	1	AO1	5.2b,g	The Electromagnetic Spectrum				
25	8	1	AO1	5.2h	The Electromagnetic Spectrum				
25	9	1	AO1	5.1b	Wave Behaviour				
26	1	1	AO1	6.2e	Uses and Hazards				
26	2	1	AO1	6.1b	Radioactive Emissions				

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26	3	1	AO2	6.2e	Uses and Hazards				
26	4	1	AO2	6.1g	Radioactive Emissions				
26	5	1	AO2	6.1j	Radioactive Emissions				
26	6	1	AO2	6.11	Radioactive Emissions				Y
26	7	1	AO1	6.1j	Radioactive Emissions			Y	
26	8	1	AO1	6.1h	Radioactive Emissions				
26	9	1	A01	6.2c	Uses and Hazards				
26	10	1	AO1	6.1b	Radioactive Emissions				
27	1	1	AO2	7.2d	Power and Efficiency				
27	2	1	AO2	7.2e	Power and Efficiency				
27	3	1	AO1	7.2d	Power and Efficiency				
27	4	1	AO2	7.2d	Power and Efficiency			Y	
27	5	1	AO2	7.1d	Work Done			Y	
27	6	1	AO2	7.2d	Power and Efficiency			Y	
27	7	1	AO2	7.2e	Power and Efficiency			Y	
28	1	1	AO1	8.2c	Powering Earth				
28	2	1	AO1	8.2g	Powering Earth				
28	3	1	AO2	8.1i	Physics on the move				
28	4	1	AO1	8.3i	Beyond Earth				
28	5	1	AO1	8.1g	Physics on the move				
28	6	1	AO1	8.2g	Powering Earth				
28	7	1	AO1	8.1i	Physics on the move				
28	8	1	AO1	8.3f	Beyond Earth				
28	9	1	AO1	8.1e	Physics on the move			Y	Y
28	10	1	AO2	8.3g	Beyond Earth				
28	11	1	AO1	8.3a	Beyond Earth				
28	12	1	AO2	8.1h	Physics on the move			Y	
28	13	1	AO1	8.1a	Physics on the move				
28	14	1	AO1	8.2a	Powering Earth				
28	15	1	AO1	8.3a	Beyond Earth				
28	16	1	AO1	8.3d	Beyond Earth				
28	17	1	AO1	8.3f	Beyond Earth				
28	18	1	AO2	8.3f	Beyond Earth				
28	19	1	AO2	8.2f	Powering Earth			Y	