



GCSE

Science A (4461)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2008 Examination – November Series

This component is an objective test for which the following list indicates the correct answers used in marking the candidates' responses.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

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GCSE
SCIENCE A (4461)/PHYSICS (4451)
 Objective Test Answer Key
PHY1BP (Radiation and the Universe)
 Foundation Tier

Question	Key			
One	A	infra red rays	4	
	B	visible light	2	
	C	ultraviolet rays	3	
	D	X-rays	1	
Two	A	gamma rays	1	
	B	radio waves	4	
	C	ultraviolet rays	2	
	D	visible light	3	
Three	A	electrons	3	
	B	neutrons	4	
	C	nuclei	2	
	D	protons	1	
Four	A	microwaves	4	
	B	radio waves	2	
	C	visible light	1	
	D	X-rays	3	
Five	A	alpha radiation	3	
	B	beta radiation	4	
	C	gamma radiation	2	
	D	visible light	1	
	A	B	C	D
Six	1	1	3	2
Seven	4	2	4	3
Eight	3	2	4	4
Nine	3	4	2	3

GCSE
SCIENCE A (4461)/PHYSICS (4451)
Objective Test Answer Key
PHY1BP (Radiation and the Universe)
Higher Tier

Question	Key			
One	A	alpha radiation	3	
	B	beta radiation	4	
	C	gamma radiation	2	
	D	visible light	1	
Two	A	4.5	2	
	B	8	3	
	C	24	4	
	D	400	1	
	A	B	C	D
Three	3	2	4	4
Four	3	4	2	3
Five	3	2	1	2
Six	4	1	3	2
Seven	1	3	3	1
Eight	1	3	3	3
Nine	3	4	2	3