



GCSE

Science A (4461)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2008 examination – March series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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GCSE
SCIENCE A (4461)/PHYSICS (4451)
Objective Test Answer Key
PHY1BP (Radiation and the Universe)
March 2008
Foundation Tier

Question	Key			
One	A	infra red radiation	3	
	B	gamma radiation	4	
	C	visible light	1	
	D	ultraviolet radiation	2	
Two	A	electron	1	
	B	neutron	4	
	C	nucleus	3	
	D	proton	2	
Three	A	SIRTF	2	
	B	Hubble	4	
	C	Chandra	3	
	D	Compton	1	
Four	A	alpha	3	
	B	beta	2	
	C	gamma	1	
	D	visible light	1	
Five	A	11	1	
	B	33	3	
	C	44	2	
	D	84	4	
Six	A	2	3	
	B	3	2	
	C	4	1	
	D	6	4	
	A	B	C	D
Seven	2	1	4	2
Eight	4	1	1	1
Nine	4	1	3	4

GCSE
SCIENCE A (4461)/PHYSICS (4451)
 Objective Test Answer Key
PHY1BP (Radiation and the Universe)
March 2008
 Higher Tier

Question	Key			
One	A	2	3	
	B	3	2	
	C	4	1	
	D	6	4	
Two	A	gamma rays	2	
	B	radio waves	3	
	C	ultraviolet waves	4	
	D	visible light	1	
	A	B	C	D
Three	4	1	1	1
Four	4	1	3	4
Five	1	1	4	1
Six	3	2	4	2
Seven	4	4	2	2
Eight	2	2	3	2
Nine	4	4	4	3