



GCSE

Science A (4461)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2008 Examination – June 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	3	
	B	ultraviolet	2	
	C	visible light	1	
	D	gamma	4	
Two	A	This telescope is used in space and detects light.	3	
	B	This telescope is used on Earth and detects radio waves.	1	
	C	This telescope is used on Earth and can be held in the hand.	2	
	D	This telescope is used on Earth to view distant stars.	4	
Three	A	electrons	1	
	B	neutrons	2	
	C	protons and electrons	4	
	D	protons and neutrons	3	
Four	A	gamma	1	
	B	infra red	3	
	C	radio waves	4	
	D	ultraviolet	2	
Five	A	4	4	
	B	12	2	
	C	60	1	
	D	90	3	
Six	A	a false statement	4	
	B	an observation	2	
	C	a belief which science cannot prove	1	
	D	a theory	3	
	A	B	C	D
Seven	3	1	1	2
Eight	1	4	2	4
Nine	4	3	4	3

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1BP (Radiation and the Universe)

Higher Tier

Question	Key			
One	A	a false statement	4	
	B	an observation	2	
	C	a belief which science cannot prove	1	
	D	a theory	3	
Two	A	analogue signal reaching a receiver	3	
	B	analogue signal sent from a transmitter	4	
	C	digital signal reaching a receiver	1	
	D	digital signal sent from a transmitter	2	
	A	B	C	D
Three	1	4	2	4
Four	4	3	4	3
Five	4	2	3	1
Six	1	1	1	4
Seven	2	2	3	3
Eight	4	1	4	1
Nine	4	1	2	4