

GCSE

Science A (4461) / Physics (4451)

Specification A

PHY1BP, PH1BSF & PH1BSH

Mark Scheme

2012 Examination - March Series

The blank answer sheet for this component can be found at the end of this document.

This component is an objective test for which the following list indicates the correct answers used in marking the students' 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) March 2012

Foundation Tier

Question				Key		
	Α	infra red way	es/	2		
One	В	microwaves		1		
One	С	radio waves		3		
	D	visible light		4		
	Α	bones		4		
Two	В	film		2		
	С	soft tissue		3		
	D	X-ray tube		1		
	Α	electron		1		
	В	neutron		4		
Three	C	nucleus		3		
	D			2		
	U	proton				
	Α	2		4		
F	В	6		3		
Four	С	150		2		
	D	600		1		
	Α	alpha		4		
Five	В	beta		1		
	С	gamma		2		
	D	X-ray		3		
		A		В	С	D
Six		4		2	3	4
Seven		3		4	3	3
Eight		2		3	1	4
Nine		3		1	2	4

GCSE SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1BP (Radiation and the Universe) March 2012

Higher Tier

Question		K	еу	
	A alpha		4	
One	B beta		1	
One	C gamma		2	
	D X-ray		3	
	A alpha partic	cles	4	
Two	B beta particl	es	2	
TWO	C gamma ray	'S	3	
	D alpha, beta	and gamma radiation	on 1	
		I		
	Α	В	С	D
Three	2	3	1	4
Four	3	1	2	4
Five	2	4	2	3
Six	1	3	4	3
Seven	1	3	1	4
Eight	4	2	2	4
Nine	1	3	2	4



Unit: PHY1BP PHYSICS UNIT 1B

Centre:

Candidate Number:

Candidate Name:

UCI:

Series: 3G12

01-MAR-12

For completion by the Examination Invigilator. Please fill this circle if the candidate is absent: O

HIGHER TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

	QUESTION ONE	1	2	3	4
1A	alpha	0	0	0	0
1B	beta	0	0	0	0
1C	gamma	0	0	0	0
1D	X-ray	0	0	0	0
	QUESTION TWO	1	2	3	4
2A	alpha particles	0	0	0	0
2B	beta particles	0	0	0	0
2C	gamma rays	0	0	0	0
2D					

QI	JESTI	ON T	HRE	E
	1	2	3	4
3A	0	0	0	0
3B	0	0	0	0
3C	0	0	0	0
3D	0	0	0	0

	QUES	TION	SIX	
	1	2	3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

	QUEST	ION	FOUF	?
	1	2	3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

QL	JESTI	ON S	EVE	Ν
	1_	2	3	4
7A	0	0	0	0
7B	0	0	0	0
7C	0	0	0	0
7D	0	0	0	0

	QUEST	ION	NINE	
	1	2	3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	0	0

	QUEST	ION	FIVE	
	1	2	3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	0	0	0	0

	QUESTI	ON E	EIGH	Γ
	1	2	3	4
8A	0	0	0	0
8B	0	0	0	0
8C	0/	0	0	0
8D	0	0	0	0

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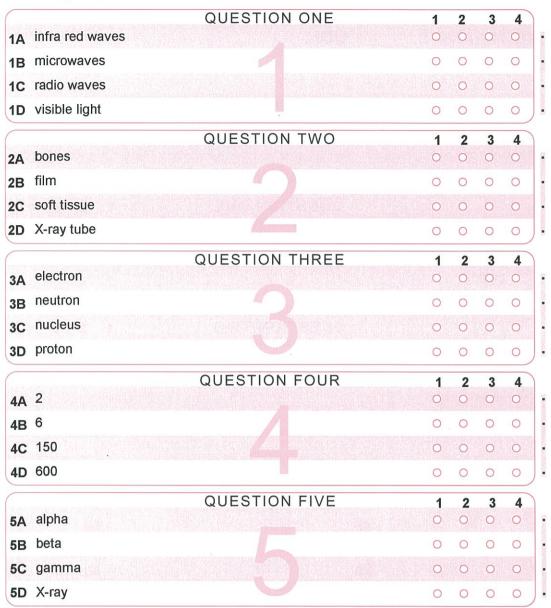


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FOUNDATION TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

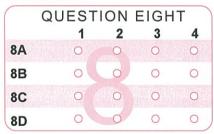
Questions ONE to NINE Choose one response 1-4 for each of the parts A-D



	QUES'	TION	SIX	
	1	2	3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

QUESTION SEVEN					
	1	2	3	4	
7A	0	0	0	0	
7B	0	0	0	0	
7C	0	0	0	0	
7D	0	0	0	0	

	QUESTION NINE				
	1	2	3	4	
9A	0	0	0	0	
9B	0	0	0	0	
9C	0	0	0	0	
9D	0	0	0	0	



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