

GCSE

Science A (4461) / Physics (4451)

Specification A

PHY1AP, PH1ASF & PH1ASH

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

PHY1AP (Energy and Electricity) March 2012

Foundation Tier

Question		Key		
	A elastic pote	ential (strain)	1	
One	B electrical		3	
One	C kinetic		2	
	D sound		4	
		ower stations	4	
Two	- ·	wer stations	3	
		wer stations	1	
	D wood-burn	ing power stations	2	
	A falling water	er (hydroelectric)	1	
	B fossil fuel	, (, a. co. co)	2	
Three	C tides		4	
	D wind		3	
	A conductor		1	
Four	B convector		2	
1 001	C insulator		4	
	D radiator		3	
	A Hairdryer		1	
	B Hand whish	V	2	
Five	C Table lamp		3	
	D Television	,	4	
	D TOTOVIOTOTT		-	
	Α	В	С	D
Six	2	4	3	1
Seven	1	4	3	2
Eight	1	3	1	3
Nine	2	4	2	1

GCSE SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity) March 2012

Higher Tier

Question		K	Cey	
	A Hairdryer		1	
One	B Hand whis	k	2	
One	C Table lam	0	3	
	D Television		4	
	A chemical e	energy to electrical er	nergy 1	
Two	B electrical e	energy to chemical er	nergy 2	
1 000	C electrical e	energy to light energy	<i>'</i> 3	
	D light energ	y to electrical energy	4	
	Ι .			
	Α	В	С	D
Three	1	3	1	3
Four	2	4	2	1
Five	3	4	1	2
Six	1	2	4	2
Seven	2	4	2	4
Eight	4	2	3	3
Nine	3	4	3	2



Unit: PHY1AP PHYSICS UNIT 1A

Centre:

Candidate Number:

UCI:

Series: 3G12

Candidate Name:

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	Hairdryer	0	0	0	0
1B	Hand whisk	0	0	0	0
1C	Table lamp	0	0	0	0
1D	Television	0	0	0	0
	QUESTION TWO	1	2	3	4
2A	chemical energy to electrical energy	0	0	0	0
2B	electrical energy to chemical energy	0	0	0	0
2C	electrical energy to light energy	0	0	0	0

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

2D

	QUES	TION	SIX	
6A	0	0	0	4
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

	QUESTI	ON F	FOUR 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	N
	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	10N 2	FIVE 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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light energy to electrical energy

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

	QUESTION ONE	1	2	3	4
IA	elastic potential (strain)	0	0	0	0
IB	electrical	0	0	0	0
1C	kinetic	0	0	0	0
1D	sound	0	0	0	0
	QUESTION TWO	1	2	3	4
	gas-fired power stations	0	0	0	0
	nuclear power stations	0	0	0	0
2C	oil-fired power stations	0	0	0	0
2D '	wood-burning power stations	0	0	0	0
	QUESTION THREE falling water (hydroelectric)	1	2	3	4
•••	fossil fuel	0	0	0	0
"		0	0	0	0
••	tides	0	0	0	0
3D '	wind	0	0	0	0
	QUESTION FOUR conductor	1	2	3	4
		0	0	0	0
	convector	0	0	0	0
	insulator	0	0	0	0
4D I	radiator	0	0	0	
-	QUESTION FIVE Hairdryer	1	2	3	4
	Hand whisk	0	0	0	0
_		0	0	0	0
	Table lamp	0	0	0	0
5D 7	Television	0	0	0	0

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

QL	JESTI	ON S	EVE	V
	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 EIGHT				
8A	0	2	0	0	
8B	0	0	0	0	
8C	0	0	0	0	
8D	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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2238



2238