

GCSE

Science A (4461)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2009 Examination - November 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 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

PHY1AP (Energy and Electricity)

November 2009

Foundation Tier

Question			Key		
	A	conductors	4		
	В	convectors	3		
One	C	radiators	2		
	D	reflectors	1		
	A	toaster	4		
Two	В	fan	2		
1 WO	C	lamp	3		
	D	radio	1		
	A	Kettle A	4		
Three	В	Kettle B	3		
Tillee	C	Kettle C	2		
	D	Kettle D	1		
	A		insformer increases th	e voltage. 4	
Four	В	Steam drives	a turbine.	2	
1 our	C	The generato	or produces electricity	. 3	
	D	Water is heat	ted to produce steam.	1	
	A	0.6	4		
Five	В	140	2		
Tive	C	200	3		
	D	300	1		
		A	В	C	D
Six		4	2	4	1
Seven		3	2	4	2
Eight		4	2	3	4
Nine		4	3	1	1

GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity)

November 2009

Higher Tier

Question				Ke	y	
	A	0.6	4			
One	В	140	2			
One	C	200	3			
	D	300	1			
	A	chemical	2			
Two	В	electrical	3			
1 WO	C	kinetic	1			
	D	light	4			
		A		В	C	D
Three		4		2	3	4
Four		4		3	1	1
Five		2		4	4	3
Six		1		4	4	2
Seven		1		3	3	4
Eight		1		3	2	3
Nine		1		1	2	4



Unit: PHY1AP PHYSICS UNIT 1A

Centre:

Candidate Number:

Candidate Name:

UCI:

Series: BG09

19-NOV-09

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

'Inlies	=109gana = =	QUESTION TWO	1	2	3	4)
1D	300		0		0	0	ا.
1C	200		0	0	0	0	
1B	140		0	0	0	0	
1A	0.6		0	0	0	0	
		QUESTION ONE	1	2	3	4	1

		QUESTION TWO	1	2	3	4)
2A	chemical		0	0	0	0	
2B	electrical		0	0	0	0	
2C	kinetic		0	0	0	0	-
2D	light		0	0	0	0	١.

QU	ESTI 1	ON T 2	HREI	E 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	o	

	QUESTI	ON F	OUR	?
	1	2	3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

QU	ESTI	ON S	EVEI	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	ل ٥

	QUEST 1	10N 2	FIVE 3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	O	0	0	0,

	QUEST	TION	EIGHT	
	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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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
conductors		0	0	0	0
convectors		0	0	0	0
radiators		0	0	0	0
reflectors	Ų.	0	0	0	0
	QUESTION TWO	1	2	3	4
Toaster		0	0	0	0
Fan		0	0	0	0
Lamp		0	0	0	0
Radio	Acres	0	0	0	ر٥
	QUESTION THREE	1	2	3	4
Kettle A			0	0	0
Kettle B		0	0	0	0
Kettle C		0	0	0	0
Kettle D		0	0	0	0
	QUESTION FOUR	1	2	3	4
	reases the voltage.	0	0	0	0
Steam drives a turbine.		0	0	0	0
The generator produces e	electricity.	0	\circ	0	0
Water is heated to produc	ce steam.	0	0	0	0
	QUESTION FIVE	1	2	3	4
0.6		0	0	0	0
140		0	0	0	0
200		0	0	0	0
	radiators reflectors Toaster Fan Lamp Radio Kettle A Kettle B Kettle C Kettle D A step-up transformer inc Steam drives a turbine. The generator produces of Water is heated to produce 0.6 140	conductors convectors radiators reflectors QUESTION TWO Toaster Fan Lamp Radio QUESTION THREE Kettle A Kettle B Kettle C Kettle D QUESTION FOUR A step-up transformer increases the voltage. Steam drives a turbine. The generator produces electricity. Water is heated to produce steam. QUESTION FIVE 0.6 140	conductors convectors radiators reflectors QUESTION TWO 1 Toaster Fan Lamp Radio QUESTION THREE 1 Kettle A Kettle B Kettle B Kettle C Kettle D QUESTION FOUR A step-up transformer increases the voltage. Steam drives a turbine. The generator produces electricity. Water is heated to produce steam.	conductors convectors radiators reflectors Toaster Fan Lamp Radio QUESTION THREE 1 2 Kettle A Kettle B Kettle C Kettle D QUESTION FOUR 1 2 A step-up transformer increases the voltage. Steam drives a turbine. The generator produces electricity. Water is heated to produce steam. 0.6 140	conductors

	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	<u> </u>

	QUEST	TION	SEVI	ΞN
ĺ	1	2	3	4
7A	C	0	. O	0
7B	0	0	0	0
7C	0	0	0	0
7D	0		0	0.,
***************************************	THE RESERVE THE PROPERTY OF THE PARTY OF THE			

1	QUEST	rion	EIGH	IT)
-	1	2	3	4
8A	0	0	0	0 ;
8B	0	0	0	0
8C	0	0	0	0
8D	0	0	0	0)

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

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