



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

Copyright © 2009 AQA and its licensors. All rights reserved.

COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

GCSE
SCIENCE A (4461)/PHYSICS (4451)
Objective Test Answer Key
PHY1AP (Energy and Electricity)
November 2009
Foundation Tier

Question	Key			
One	A	conductors	4	
	B	convectors	3	
	C	radiators	2	
	D	reflectors	1	
Two	A	toaster	4	
	B	fan	2	
	C	lamp	3	
	D	radio	1	
Three	A	Kettle A	4	
	B	Kettle B	3	
	C	Kettle C	2	
	D	Kettle D	1	
Four	A	A step-up transformer increases the voltage.	4	
	B	Steam drives a turbine.	2	
	C	The generator produces electricity.	3	
	D	Water is heated to produce steam.	1	
Five	A	0.6	4	
	B	140	2	
	C	200	3	
	D	300	1	
	A	B	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	Key			
One	A	0.6	4	
	B	140	2	
	C	200	3	
	D	300	1	
Two	A	chemical	2	
	B	electrical	3	
	C	kinetic	1	
	D	light	4	
	A	B	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 :

UCI :

Series : BG09

Candidate Name :

19-NOV-09

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

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

- 1A 0.6
1B 140
1C 200
1D 300

1	2	3	4
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐

QUESTION TWO

- 2A chemical
2B electrical
2C kinetic
2D light

1	2	3	4
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐

QUESTION THREE

	1	2	3	4
3A	☐	☐	☐	☐
3B	☐	☐	☐	☐
3C	☐	☐	☐	☐
3D	☐	☐	☐	☐

QUESTION FOUR

	1	2	3	4
4A	☐	☐	☐	☐
4B	☐	☐	☐	☐
4C	☐	☐	☐	☐
4D	☐	☐	☐	☐

QUESTION FIVE

	1	2	3	4
5A	☐	☐	☐	☐
5B	☐	☐	☐	☐
5C	☐	☐	☐	☐
5D	☐	☐	☐	☐

QUESTION SIX

	1	2	3	4
6A	☐	☐	☐	☐
6B	☐	☐	☐	☐
6C	☐	☐	☐	☐
6D	☐	☐	☐	☐

QUESTION SEVEN

	1	2	3	4
7A	☐	☐	☐	☐
7B	☐	☐	☐	☐
7C	☐	☐	☐	☐
7D	☐	☐	☐	☐

QUESTION EIGHT

	1	2	3	4
8A	☐	☐	☐	☐
8B	☐	☐	☐	☐
8C	☐	☐	☐	☐
8D	☐	☐	☐	☐

QUESTION NINE

	1	2	3	4
9A	☐	☐	☐	☐
9B	☐	☐	☐	☐
9C	☐	☐	☐	☐
9D	☐	☐	☐	☐

For AQA Office Use Only

2238



2238

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
1A	conductors	☐	☐	☐	☐
1B	convectors	☐	☐	☐	☐
1C	radiators	☐	☐	☐	☐
1D	reflectors	☐	☐	☐	☐

QUESTION TWO		1	2	3	4
2A	Toaster	☐	☐	☐	☐
2B	Fan	☐	☐	☐	☐
2C	Lamp	☐	☐	☐	☐
2D	Radio	☐	☐	☐	☐

QUESTION THREE		1	2	3	4
3A	Kettle A	☐	☐	☐	☐
3B	Kettle B	☐	☐	☐	☐
3C	Kettle C	☐	☐	☐	☐
3D	Kettle D	☐	☐	☐	☐

QUESTION FOUR		1	2	3	4
4A	A step-up transformer increases the voltage.	☐	☐	☐	☐
4B	Steam drives a turbine.	☐	☐	☐	☐
4C	The generator produces electricity.	☐	☐	☐	☐
4D	Water is heated to produce steam.	☐	☐	☐	☐

QUESTION FIVE		1	2	3	4
5A	0.6	☐	☐	☐	☐
5B	140	☐	☐	☐	☐
5C	200	☐	☐	☐	☐
5D	300	☐	☐	☐	☐

QUESTION SIX		1	2	3	4
6A	☐	☐	☐	☐	☐
6B	☐	☐	☐	☐	☐
6C	☐	☐	☐	☐	☐
6D	☐	☐	☐	☐	☐

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

QUESTION EIGHT		1	2	3	4
8A	☐	☐	☐	☐	☐
8B	☐	☐	☐	☐	☐
8C	☐	☐	☐	☐	☐
8D	☐	☐	☐	☐	☐

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

For AQA Office Use Only

2238



2238