GCSE

Science A (4461) / Physics (4451)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2010 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.

GCSE
SCIENCE A (4461) / PHYSICS (4451)
Objective Test Answer Key
PHY1A (Energy and Electricity)
November 2010
Foundation Tier

Question		Key			
One	A	conduction	2		
	B	insulation	3		
	C	radiation	1		
	D	reflection	4		
Two	A	gas	4		
	B	geothermal	3		
	C	moving water	2		
	D	uranium	1		
Three	A	chemical	1		
	B	electrical	3		
	C	heat	4		
	D	kinetic	2		
Four	A	coal-fired	4		
	B	hydroelectric	3		
	C	nuclear	2		
	D	tidal barrage	1		
Five	A	electric drill	1		
	B	desk lamp	3		
	C	hair dryer	2		
	D	television	4		
	A		B	C	D
Six	2		4	2	1
Seven	1		1	4	2
Eight	4		1	3	4
Nine	2		3	3	4

GCSE
SCIENCE A (4461) / PHYSICS (4451)
Objective Test Answer Key
PHY1A (Energy and Electricity)
November 2010
Higher Tier

Question	Key				
One	A electric drill 1				
	B desk lamp 3				
	C hair dryer 2				
	D television 4				
Two	A electrical to light 1				
	B electrical to sound 2				
	C light to electrical 4				
	D sound to electrical 3				

	A	B	C	D
Three	4	1	3	4
Four	2	3	3	4
Five	4	2	4	4
Six	3	2	4	1
Seven	3	4	2	1
Eight	2	4	2	3
Nine	2	3	4	3

GCSE SCIENCE

Unit : PHY1AP   PHYSICS UNIT 1A

Centre :

Candidate Number :   UCI :

Candidate Name :

Series : BG10

11-NOV-10

AQA

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

		1	2	3	4
1A	Electric drill	○	○	○	○
1B	Desk lamp	○	○	○	○
1C	Hair dryer	○	○	○	○
1D	Television	○	○	○	○

QUESTION TWO

		1	2	3	4
2A	electrical to light	○	○	○	○
2B	electrical to sound	○	○	○	○
2C	light to electrical	○	○	○	○
2D	sound to electrical	○	○	○	○

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	○	○	○	○

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FOUNDATION TIER

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

QUESTION ONE

		1	2	3	4
1A	conduction	○	○	○	○
1B	insulation	○	○	○	○
1C	radiation	○	○	○	○
1D	reflection	○	○	○	○

QUESTION TWO

		1	2	3	4
2A	gas	○	○	○	○
2B	geothermal	○	○	○	○
2C	moving water	○	○	○	○
2D	uranium	○	○	○	○

QUESTION THREE

		1	2	3	4
3A	chemical	○	○	○	○
3B	electrical	○	○	○	○
3C	heat	○	○	○	○
3D	kinetic	○	○	○	○

QUESTION FOUR

		1	2	3	4
4A	coal-fired	○	○	○	○
4B	hydroelectric	○	○	○	○
4C	nuclear	○	○	○	○
4D	tidal barrage	○	○	○	○

QUESTION FIVE

		1	2	3	4
5A	Electric drill	○	○	○	○
5B	Desk lamp	○	○	○	○
5C	Hair dryer	○	○	○	○
5D	Television	○	○	○	○

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	○	○	○	○