

GCSE

Science A (4461) / Physics (4451)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2011 Examination – June 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) June 2011

Foundation Tier

Question			Key			
	Α	coal-fired			1	
0:	В	gas-fired			2	
One	С	nuclear			3	
	D	oil-fired		4		
	Α	chemical			3	
Two	В	electrical			2	
Two	С	kinetic			4	
	D	light			1	
	Α	prevents hot	he flask	1		
Three	В	reduces hea	t loss by conduction	through the base	4	
111100	C reduces heat loss by radiation				2	
	D	prevents hea	at loss by conduction	and convection	3	
	Α		e the electricity is bei		1	
Four	В	This is where	e the electricity is bei	ng used.	4	
. • • •	С	This is where	e the voltage is decre	eased.	3	
	D	This is where	e the voltage is incre	ased.	2	
	_	400/				
	A	10%			2	
Five	В	20%			3	
	С	40%			4	
	D	50%			1	
		A	В	С	D	
Civ						
Six		4	2	1	1	
Seven		2	2	3	2	
Eight		2	1	1	3	
Nine		3	4	1	3	

GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity)

June 2011

Higher Tier

Question				Key	
	Α	10%			2
One	В	20%			3
One	С	40%			4
	D	50%			1
	Α	food mixer	-		2
Two B C	В	iron			1
	С	radio			3
	D	television			4
		Α	В	С	D
Three		2	1	1	3
Four		3	4	1	3
Five		1	1	1	4
Six		3	4	4	4
Seven		3	3	2	1
Eight		4	2	3	3
Nine		1	3	4	1

The AQA UMS Conversion Calculator can be found at the following web address:

http://www.aqa.org.uk/umsconversion



Unit: PHY1AP PHYSICS UNIT 1A

Centre:

Candidate Number:

UCI:

Series: 6M11

28-JUN-11

Candidate Name:

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	10%		0	0	0	0
1B	20%		0	0	0	0
1C	40%		0	0	0	0
1D	50%		0	0	0	0

		QUESTION TWO	1	2	3	4
2A	food mixer		0	0	0	0
2B	iron		0	0	0	0
2C	radio		0	0	0	0
2D	television		0	0	0	0

Ql	QUESTION THREE						
	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

Q	UEST	ION	OUF	?
	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	QUESTION SEVEN						
7.0	1	2	3	4			
7A 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

	QUESTION 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

	QUESTION		EIGHT	
	1	2	3	4
8A 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
1A	coal-fired	0	0	0	0
1B	gas-fired	0	0	0	0
1C	nuclear	0	0	0	0
1D	oil-fired	0	0	0	0
	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
	QUESTION THREE	1	2	3	4
3A	prevents hot air from rising from the flask	0	0	0	0
3B	reduces heat loss by conduction through the base	0	0	0	0
3C	reduces heat loss by radiation	0	0	0	0
3D	prevents heat loss by conduction and convection	0	0	0	0
	QUESTION FOUR	1	2	3	4
4A	This is where the electricity is being generated.	0	0	0	0
4B	This is where the electricity is being used.	0	0	0	0
4C	This is where the voltage is decreased.	0	0	0	0
4D	This is where the voltage is increased.	0	0	0	0
	QUESTION FIVE	1	2	3	4
5A	10%	0	0	0	0
5B	20%	0	0	0	0
5C	40%	0	0	0	0
5D	50%	0	0	0	0

	QUESTION 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 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	

	QUEST			
	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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