

GCSE

Science A (4461)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2010 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 2010

Foundation Tier

Question				Ke	У			
	Α	chemical ene	rgy	4				
	В	electrical ene	rgy	3				
One	С	heat (thermal	energy)	2				
	D	kinetic energy	y	1				
	Α	conduction		4				
Two	В	convection		3				
1 WO	С	insulation		1				
	D	radiation		2				
	Α	fossil fuels		1				
Three	В	hot rocks		2				
	С	moving air		4				
	D	sunlight		3				
				2				
	A	gas-fired		_				
Four	В	hydroelectric		1				
	С	nuclear		3				
	D	wind farm		4				_
	Α	Coal			4			
	В	Gas			1			
Five	С	Hvdroelectric	(falling water)		2			
	D	Nuclear	(3 ,		3			
		Α	В			С	D	
Six		2	2			3	2	
Seven		2	3			1	2	
Eight		4	4			3	3	
Nine		3	2			4	3	

GCSE SCIENCE A (4461) / PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity) June 2010

Higher Tier

Question			Key	
	A Coal		4	
One	B Gas		1	
One	C Hydroel	ectric (falling water)	2	
	D Nuclear		3	
	A electricit	y is produced	4	
Two	B moving	water drives turbines	2	
I WO	C turbines	drive generators	3	
	D water co	ollects in a reservoir	1	
				_
	Α	В	С	D
Three	4	4	3	3
Four	3	2	4	3
Five	2	2	3	2
Six	2	3	2	4
Seven	4	3	4	4
Eight	3	2	2	2
Nine	2	3	3	2



Unit: PHY1AP PHYSICS UNIT 1A

Centre:

Candidate Number:

UCI:

Series: 6M10

Candidate Name :

28-JUN-10

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	Coal	0	0	O.	0	
1B	Gas	0	0	0	0	
1C	Hydroelectric (falling water)	0	0	0	0	
1D	Nuclear	0	0	0	0	-
	QUESTION TWO				-	
1	QUESTION TWO	1	2	3	4	·
2A	electricity is produced	0	0	3 ()	4 \ 0	
2A 2B		0	0	3 0	4 \	
	electricity is produced	0	0	0 0	0 0	

	QUES ¹	ΓΙΟΝ 2	THREE 3	4
3A	. 0	0	0	0
3B		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	\circ	0
6C	0	0	0	0
6D	0	0	0	0)

	QUEST	ION I	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)

	QUEST	ION	SEVE	EN
	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	10N 2	NINE 3	4
9A	0	O	0	0
9B	0	0	0	0,
9C	0	0	0	0
9D	0	0	0	0

	QUEST	ION	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

	QUES.	TION	EIGHT	-
	1	2	3	4
A8	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
IA	chemical energy		0.	0	0	0
1B	electrical energy		0	0	0	0
1C	heat (thermal energy)		0	0	0	0
1D	kinetic energy		0	0	0	ر ہ
		QUESTION TWO	1	2	3	4
2A	conduction	建筑的建筑设置,是是是是这种政治的,但是不是	0	0	0	0
2B	convection		0	0	0	0
2C	insulation		0	0	0	0
2D	radiation	Marin .	0,	0	0	0
		QUESTION THREE	1	2	3	4
3A	fossil fuels		0	0	0	0
3B	hot rocks	8.9	0	0	0	0
3C	moving air		0	0	0	0
3D	sunlight		0	0	0	ر ہ
,		QUESTION FOUR	1	2	3	4
4A	gas-fired		0	0	0	0
4B	hydroelectric		0	0	0	0
4C	nuclear		0	0	0	0
4D	wind farm		0	0	0	0
		QUESTION FIVE	1	2	3	4
5A	Coal		0	0	0	0
5B	Gas		0	0	0	0
5C	Hydroelectric (falling wa	ter)	0	0	0	0
5D	Nuclear		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

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

	QUEST	ION 2	EIGH 3	T 4
8A	0	0	0	0
8B	0	0	0	0
8C	0	0	0	0
8D	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)

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