

GCSE

Science A (4461) / Physics (4451)

Specification A

PHY1AP, PH1ASF & PH1ASH

Mark Scheme

2012 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 students' responses.
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GCSE

SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity)

November 2012

Foundation Tier

Question				Key		
	Α	electrical	3	}		
One	В	thermal	4	ļ.		
One	С	light	1			
	D	kinetic	2			
	Α	conduction				
Two	В	convection				
•	С	insulatior				
	D	radiation	4			
	A Day's flood our formuland					
	A		od our farmland	2		
Three	В		turbines kill our bird			
	С		waste causes cance			
	D	Stop rele	asing polluting gas	es 3	_	
	Α	falling wa	ater 2)		
	В	oil	3			
Four	C	plutoniun				
	D	wood	4	.		
	Α	0.6	4	ļ.		
Five	В	5	3	}		
rive	С	15	2			
	D	30	1			
			I	T		
		Α	В	С		D
Six		1	3	1		1
Seven		4	4	1		3
Eight		3	2	3		1
Nine		3	3	3		2

GCSE SCIENCE A (4461)/PHYSICS (4451)

Objective Test Answer Key

PHY1AP (Energy and Electricity)

November 2012

Higher Tier

Question				Key	
	Α	0.6		4	
One	В	5		3	
One	С	15		2	
	D	30		1	
	Α	coal		4	
Two	В	hydroele	ectric	3	
1 00	С	nuclear		1	
	D	wind		2	
	ı				
		Α	В	С	D
Three		3	2	3	1
Four		3	3	3	2
Five		2	3	3	2
Six		2	4	2	3
Seven		1	3	2	1
Eight		1	3	2	3
Nine		1	1	2	4

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:

Candidate Name:

UCI:

Series: BG12

06-NOV-12

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	1
1A	0.6		0	0	0	0	
1B	5		0	0	0	0	
1C	15		0	0	0	0	,
1D	30		0	0	0	0	
		QUESTION TWO	1	2	3	4	1
2A	coal		0	0	0	0	
2B	hydroelectric		0	0	0	0	
2C	nuclear		0	0	0	0	
2D	wind		0	0	0	0	

C	QUEST 1	10N 2	THRI	EE 4
3A	0	0	0	0
3B	0	0	0	0
3C	0	0	0	0
3D	0	0	0	0)

	QUES'			
6A	1	2	3	4
	O	O	0	0
6B	0	0	0	0
6C	0	0	0	0
6D	0	0	0	0

	QUEST 1	ION F	OUR 3	4
4A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

	QUE	STIC)N SI	EVE	V
		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	NINE 3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	0	0

	QUEST 1	ION 2	FIVE 3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	0	0	0	0

	QUEST	ION	EIGH	Т
	1	2	3	4
8 A	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

	SIX	QUESTION SEVEN	(QU	ES	ГΙС
5D	30		0	0	0	0	J •
5C	15		0	0	0	0	
5B	5		0	0	0	0	
5A	0.6		0	0	0	0	•
		QUESTION FIVE	1	2	3	4	1
4D	wood		0	0	0	0	
4C	plutonium		0	0	0	0	
4B	oil		0	0	0	0	
4A	falling water		0	0	0	0	
		QUESTION FOUR	1	2	3	4)
3D	Stop releasing polluting gas	ses.	0	0	0	0	
3C	Nuclear waste causes cand	er.	0	0	0	0	
3B	Don't let turbines kill our bi	rds.	0	0	0	0	
3A	Don't flood our farmland.	w. c c	0	0	0	0	
		QUESTION THREE	1	2	3	4	
2D	radiation		0	0	0	0	
2C	insulation		0	0	0	0	
2B	convection		0	0	0	0	
2A	conduction	QUESTION TWO		0	0	0	
	Miloto	OUESTION TWO	1	2	3	4)
1D	kinetic		0	0	0	0	
1C	light		0	0	0	0	
1A 1B	thermal		0	0	0	0	
1A	electrical	QUESTION ONE	1	2	3	4	

QUESTION SIX					
6A	1	2	3	4	
6B	0	0	0	0	
6C	0	0	0	0	
6D	0	0	0	0	

QUESTION SEVEN						
7A	0	0	0	0		
7B	0	0	0	0		
7C	0	0	0	0		
7D	0	0	0	0		

	QUESTION EIGHT				
8A	0	2	0	0	
8B	0	0	0	0	
8C	0	0	0	0	
8D	0	0	0	0	

	QUEST	10N 2	NINE 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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