



GCSE

Science A (4461)

Specification A

CHY1AP, CH1ASF & CH1ASH

Mark Scheme

2009 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

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)/CHEMISTRY (4421)
 Objective Test Answer Key
CHY1AP (Products from Rocks)
June 2009
 Foundation Tier

Question	Key			
One	A	calcium carbonate	2	
	B	carbon dioxide	1	
	C	calcium oxide	4	
	D	calcium hydroxide	3	
Two	A	haematite	2	
	B	silver ore	3	
	C	chalcopyrite	1	
	D	bauxite	4	
Three	A	a compound	4	
	B	an electron	2	
	C	a bond	3	
	D	an element	1	
Four	A	environmentally	2	
	B	politically	3	
	C	ethically	4	
	D	economically	1	
Five	A	Substance A	1	
	B	Substance B	2	
	C	Substance C	3	
	D	Substance D	4	
	A	B	C	D
Six	4	2	1	3
Seven	1	1	2	3
Eight	2	3	1	2
Nine	3	3	4	1

GCSE
SCIENCE A (4461)/CHEMISTRY (4421)
 Objective Test Answer Key
CHY1AP (Products from Rocks)
June 2009
 Higher Tier

Question	Key			
One	A	Substance A	1	
	B	Substance B	2	
	C	Substance C	3	
	D	Substance D	4	
Two	A	compounds	3	
	B	bonds	2	
	C	products	1	
	D	elements	4	
	A	B	C	D
Three	2	3	1	2
Four	3	3	4	1
Five	3	3	1	2
Six	2	4	2	3
Seven	4	1	4	1
Eight	3	2	3	1
Nine	3	3	2	3

Unit : CHY1AP CHEMISTRY UNIT 1A

Centre :

Candidate Number :

UCI :

Series : 6M09

Candidate Name :

22-JUN-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 substance A
1B substance B
1C substance C
1D substance D

1	2	3	4
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO

- 2A compounds
2B bonds
2C products
2D elements

1	2	3	4
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE

	1	2	3	4
3A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR

	1	2	3	4
4A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE

	1	2	3	4
5A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SIX

	1	2	3	4
6A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION SEVEN

	1	2	3	4
7A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION EIGHT

	1	2	3	4
8A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION NINE

	1	2	3	4
9A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For AQA Office Use Only

2212



2212

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 calcium carbonate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
1B carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
1C calcium oxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
1D calcium hydroxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION TWO				
	1	2	3	4	
2A Haematite	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
2B Silver ore	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
2C Chalcopyrite	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
2D Bauxite	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION THREE				
	1	2	3	4	
3A a compound	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
3B an electron	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
3C a bond	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
3D an element	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION FOUR				
	1	2	3	4	
4A environmentally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
4B politically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
4C ethically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
4D economically	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION FIVE				
	1	2	3	4	
5A substance A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
5B substance B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
5C substance C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
5D substance D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION SIX				
	1	2	3	4	
6A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
6B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
6C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
6D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION SEVEN				
	1	2	3	4	
7A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
7B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
7C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
7D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION EIGHT				
	1	2	3	4	
8A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
8B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
8C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
8D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

	QUESTION NINE				
	1	2	3	4	
9A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
9B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
9C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.
9D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	.

For AQA Office Use Only

2212



2212