



GCSE

Science A (4461)

Specification A

CHY1AP, CH1ASF & CH1ASH

Mark Scheme

2010 Examination – March 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)/CHEMISTRY (4421)
Objective Test Answer Key
CHY1AP (Products from Rocks)
March 2010
Foundation Tier

Question	Key			
One	A	carbon dioxide	3	
	B	particles	2	
	C	sulfur dioxide	1	
	D	water vapour	4	
Two	A	iron	3	
	B	aluminium	4	
	C	gold	1	
	D	stainless steel	2	
Three	A	atoms	2	
	B	compounds	4	
	C	non-metal elements	3	
	D	elements	1	
Four	A	aluminium	2	
	B	glass	3	
	C	iron	4	
	D	lead	1	
Five	A	Anaesthetic A	2	
	B	Anaesthetic B	4	
	C	Anaesthetic C	3	
	D	Anaesthetic D	1	
	A	B	C	D
Six	2	3	4	1
Seven	4	4	4	2
Eight	2	3	2	2
Nine	3	1	3	4

GCSE
SCIENCE A (4461)/CHEMISTRY (4421)
Objective Test Answer Key
CHY1AP (Products from Rocks)
March 2010
Higher Tier

Question	Key			
One	A	Anaesthetic A	2	
	B	Anaesthetic B	4	
	C	Anaesthetic C	3	
	D	Anaesthetic D	1	
Two	A	reduction	4	
	B	combustion	2	
	C	thermal decomposition	1	
	D	corrosion	3	
	A	B	C	D
Three	2	3	2	2
Four	3	1	3	4
Five	3	3	1	3
Six	4	1	3	4
Seven	3	2	2	2
Eight	4	3	3	3
Nine	4	3	2	4

Unit : CHY1AP CHEMISTRY UNIT 1A

Centre :

Candidate Number :

UCI :

Series : 3G10

Candidate Name :

03-MAR-10

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	Anaesthetic A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Anaesthetic B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Anaesthetic C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Anaesthetic D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	reduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	combustion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	thermal decomposition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	corrosion	<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"/>	

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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	carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
1B	particles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
1C	sulfur dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
1D	water vapour	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

	QUESTION TWO				1	2	3	4
2A	iron	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
2B	aluminium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
2C	gold	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
2D	stainless steel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

	QUESTION THREE				1	2	3	4
3A	atoms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
3B	compounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
3C	non-metal elements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
3D	elements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

	QUESTION FOUR				1	2	3	4
4A	aluminium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
4B	glass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
4C	iron	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
4D	lead	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			

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

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