

GCSE

## Science A (4461) / Chemistry (4421)

Specification A

## **CHY1AP, CH1ASF & CH1ASH**

# **Mark Scheme**

2011 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.

Further copies of this Mark Scheme are available to download from the AQA Website: www.aqa.org.uk

Copyright © 2011 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.

The Assessment and Qualifications Alliance (AQA) is a company limited by guarantee registered in England and Wales (company number 3644723) and a registered charity (registered charity number 1073334). Registered address: AQA, Devas Street, Manchester M15 6EX

#### GCSE

#### SCIENCE A (4461)/CHEMISTRY (4421)

Objective Test Answer Key

#### CHY1AP (Products from Rocks)

#### November 2011

#### Foundation Tier

Question			Ke	<b>≩y</b>							
	Α	hard			3						
One	В	resistant to c	orrosion		4						
One	С	easily shape	d		2						
	D	D brittle									
	Δ	A Chalcocite									
	В	Chalcopyrite			2 1						
Two	C	Cuprite			3						
	D	Malachite			4						
					•						
	Α	a bond			3						
Three	В	an electron			2						
111100	С	a molecule			4						
	D	a nucleus			1						
	Α	Methane			2						
<b>F</b>	в	Ethane			4						
Four	С	Propane	1								
	D	Butane			3						
	•	Carban diavi	4		0						
	A	Carbon dioxi Methane and			2						
Five	B C	Limestone	i not all		3						
		Quicklime			1						
	D	QUICKIIIIIE			4						
		Α	В	С	D						
Six		4	2	2	4						
Seven		3	2	2	1						
Eight		3	1	2	3						
Nine		3	2								

#### GCSE

#### SCIENCE A (4461)/CHEMISTRY (4421)

**Objective Test Answer Key** 

#### CHY1AP (Products from Rocks)

#### November 2011

#### **Higher Tier**

Question			Кеу								
	A Carbon di	oxide		2							
One	B Methane a	Methane and hot air									
One	C Limestone	9		1							
	D Quicklime	4									
	A Hydrocart	oons turn to vapour		1							
Two	B Hydrocart	B Hydrocarbons cool									
TWO	C Hydrocark	Hydrocarbons with low boiling points									
	D Hydrocart	oons condense to for	m liquids	4							
		T	Γ								
	Α	В	С	D							
Three	3	1	2	3							
Four	3	2	1	2							
Five	4	2	2	2							
Six	2	2	3	2							
Seven	1	2	2	3							
Eight	2	3	3	3							
Nine	2	3	1	4							

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

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



AQA

Unit : CHY1AP CHEN	MISTRY UNIT	<b>1</b> A
--------------------	-------------	------------

Centre :

Candidate Number :

UCI :

Series : BG11 15-NOV-11

Candidate Name :

-

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	Carbon dioxide		0	0	0	0
1B	Methane and hot air		0	0	0	0
1C	Limestone		0	0	0	0
1D	Quicklime		0	0	0	0
		QUESTION TWO	1	2	3	4
2A	Hydrocarbons turn to vap		<b>1</b> 0	<b>2</b>	3	<b>4</b>
2A 2B	Hydrocarbons turn to vapo Hydrocarbons cool		<b>1</b> 0	<b>2</b> 0	<b>3</b> 0	<b>4</b> 0
all series		our	1 0 0	2 0 0	<b>3</b> 0 0	<b>4</b> 0 0

	QUE	STIO	N TH	IREE	
		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

	QUESTION FOUR							
	1	2	3	4				
<b>4</b> A	0	0	0	0				
4B	0	0	0	0				
4C	0	0	0	0				
4D	0	0	0	0				

Q	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					

7D	0	0	0	0
	QUES <sup>-</sup>	tion 2	NINE 3	4
9A	0	0	0	0
9B	0	0	0	0
90	0	0	0	0
9D	0	0	0	0



	QUES	TI	ΟN	EIGHT	
	1		2	3	4
<b>8</b> A	C		0	0	0
8B	C		0	0	0
8C	C	)	0	0	0
8D	C	1	0	0	0



### 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

			Qu	estion	is ONE to	NINE	Choose	one resp	onse	1 - 4	ior e	ach of t	ne p	arts 1	A - D				
		10	hard				QUES	STION	ONI	E			1		3	4			
		C. OR		nt to	corrosion									0					
			easily									0	0	0	0				
		1215-12	brittle	Shape	,u								0			0			
			Diffice					100					0		0	0	) =		
		24	Chalco	cite			QUES	TION	TWO	0			1		3	4			
			Chalco		9									0	0	0			
			Cuprite					CHILD V					0		0	0			
			Malach										0		0	0			
		20	Maraol					ALL AND A					0		0	0	) =		
		24	a bond			C	UEST	ION .	THRI	EE			1		3	4			
			an elec										0			0			
			a mole					ease of					0	0	0	0			
			a nucle										0		0	0			
		30	anuoit	543									0	0	0	0	)•		
		-	Metha	20		(	QUES	TION	FOU	IR	A LOCAL SALES		1		3	4			
													0		0	0			
			Ethane								0	0	0	0					
			Propar								0		0	0					
		4D	Butane	;							0	0	0	0	)•				
	5A Carbon dioxide					QUESTION FIVE					1		3	4					
					d hot air								0	0	0	0			
					u not an								0	0	0	0			
		5325	Limest										0		0	0	1		
		50	Quickl	ime									0	0	0	0	)•		
	QUEST					(	QUES						(		QU			EIGH	
6A	1	2	3	4		7A	C	1 2		3	4			8A		1	2	3	4
6B	0	0	0	0		7B	C		C		0			8B		0	0		0
6C	0	0	0	0		7C	C				0			8C		0	0	0	0
6D	0	0	0	0		7D	C		C		0			8D		0	0	0	0
								STION											
							QUE.		3		4								
						9A	C	0	C	0	0								
						9B	C	0	C	)	0								
						90	С	) 0	C	)	0								
						9D	C		C	)	0								
For	r AQA Ofi	fice	Use C	nly	221	2							22	212					
		1011	8072																