

GCSE

Science A (4461) / Chemistry (4421)

Specification A

CHY1AP, CH1ASF & CH1ASH

Mark Scheme

2010 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 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)

November 2010

Foundation Tier

Question			Ke	ey (
	Α	Iron			1	
One Two Three Four Five Six Seven Eight	в	Aluminium			2	
	С	Copper			4	
	D	Calcium			3	
	•	will benefit th			4	
	A		e quarry owners		4	
One Two Three Four Five Six Seven	В		eople living close to th		1	
		-	oblems for the quarry		3	
	D	will cause pro	oblems for local peop	le	2	
	Α	Biodiesel			3	
One Two Three Four Five Six Seven Eight	в	Methane			2	
	С	Animal waste	9		1	
	D	Dried sludge			4	
	A	kerosene			2	
	в	petroleum ga	IS		1	
Four	с	petrol			3	
Two Three Four Six Seven Eight	D	bitumen			4	
Four A Four A Four A Four A Five A Fi	Α	uses another	metal		3	
	В	does not use	e a chemical reaction		2	
	С	could be don	e in a blast furnace		4	
	D	is called elec	trolysis		1	
		A	В	С		D
Six		2	3	2		3
		1	4	3		2
Eight		3	4	2		1
Nine		3	2	1		2

GCSE

SCIENCE A (4461) / CHEMISTRY (4421)

Objective Test Answer Key

CHY1AP (Products from Rocks)

November 2010

Higher Tier

Question				Кеу		
QuestionKeyAuses another metalOneBdoes not use a chemical reactionCcould be done in a blast furnaceDis called electrolysisTwoAWaterBCalcium oxideCCalcium carbonateDCarbon dioxideThree34Four32Five34Six32Six32Seven23		3				
000	B do	es not us	e a chemical react	tion	2	
A One A C D Two A C D D C D C D C D C D C D C D C D C D	C co	uld be dor	ne in a blast furnad	ce	4	
	D is	called elec	ctrolysis		1	
	A W	ater			4	
One Two Three Four Five Six Seven Eight	B Ca	alcium oxio	de		3	
	C Ca	alcium car	bonate		1	
	D Ca	arbon diox	ide		2	
	Α		В	C	D	
Three	3		4	2	1	
Four	3		2	1	2	
Five	3		4	2	3	
Six	3		2	1	4	
Seven	2		3	1	4	
Eight	3		2	2	2	
Nine	1		2	3	4	

GCSE SCIENCE



: BG10

Unit : CHY1AP	CHEM	ISTRY UNIT 1A	
Centre :			
Candidate Numb	er :	UCI :	Series

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 0 0 \bigcirc 0 **1**A uses another metal . \bigcirc \bigcirc \odot 1B \bigcirc does not use a chemical reaction 1C \bigcirc \bigcirc \bigcirc could be done in a blast furnace \bigcirc × 1D \bigcirc 0 \bigcirc \bigcirc is called electrolysis QUESTION TWO 1 2 3 4 2A Water \bigcirc Ο \bigcirc \bigcirc 2B \bigcirc \bigcirc Ο \bigcirc Calcium oxide . 2C Ο \bigcirc O \bigcirc Calcium carbonate . 2D 0 \bigcirc 0 \bigcirc Carbon dioxide .

(QUES	TION	I TH	REE	
	1	2		3	4
3A	C)	0	0
3B	C) Ç)	0	0
3C	C) ()	0	0
3D	С	0 0)	0	0)

	QUES	TION	SIX	
	1	2	3	4
6A	0	0	0	0
6B	0	0	0	0
6C	0	0	Q	0
6D	0	0	0	o

	QUEST	ION F	OUF	2
	1	2	3	4
4 A	0	0	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

\bigcap	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	ION	NINE	
	1	2	3	4
9A	0	0	0	0
9B	0	0	0	0
9C	0	0	0	0
9D	0	0	O	0)

(QUES	TION	FIVE	
	1	2	3	4
5A	0	· 0	0	0
5B	0) Q	0	0
5C	0	0	0	0
5D	0	0	0	0

	QUEST	ION E	EIGH	Г
	1	2	3	4
8A	0	0	0	Ó
8B	0	0	0	0
8C	0	0	0	0
8D	0	0	0	0

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in.	10		FO	UNDATIO	ON TIE	R				10	59P
Instr	uctions on how	to complete	this answer she	et are given on the o	question paper.	Please make	sure y	ou fo	llow th	em car	refully.
		Questions	ONE to NINH	E Choose one resp	onse 1-4 fo	r each of the p	arts .	A - D			
				QUESTION	ONE	1	2	3	4	1	
	1A Iro	n en				0	0	0	0	140	

1A	Iron	0	0	0	0
1B	Aluminium	0	0	0	0
1C	Copper	0	0	0	0
1D	Calcium	0	0	0	0
24	QUESTION TWO will benefit the quarry owners	1	2	3	4
2A 2B	will benefit people living close to the quarry	0	0	0	0
_		0	0	0	0
2C	will cause problems for the quarry owners	0	0	0	0
2D	will cause problems for local people	0	0	0	0
	QUESTION THREE Biodiesel	1	2	3	4
3A	Methane	0	0	0	0
3B		0	0	0	0
3C	Animal waste	0	0	0	0
3D	Dried sludge	0	0	0	0
_	QUESTION FOUR	1	2	3	4
4A	kerosene	0	0	0	0
4B	petroleum gas	0	Ó	0	0
4C	petrol	0	0	0	0
4D	bitumen	0	0	0	0
	QUESTION FIVE	1	2	3	4
5A	uses another metal	0	0	0	0
5B	does not use a chemical reaction	0	0	0	0
5C	could be done in a blast furnace	0	0	0	0
5D	is called electrolysis	0	0	0	0

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

QUE	STI	ON S	EVE	N
	1	2	3	4
	0.0	с;О	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
QU	EST	ION	NINE	
	1	2	3	4
	0	0	0	0
		1 0 0 0	1 2 0 0 0 0 0 0 0 0	

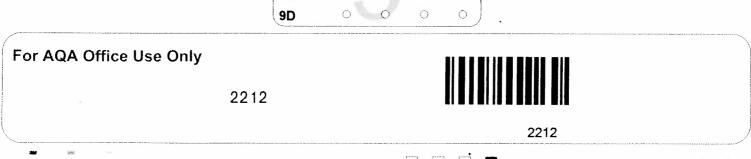
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	QUESTION EIGHT						
	1	2	3	4			
8A	Ο.	Q.	ò	0			
8B	0	0	0	0			
8C	O.**	0	0	0			
8D	0	0	0	0			



9C