

GCSE

Science A (4461)

Specification A

CHY1AP, CH1ASF & CH1ASH

Mark Scheme

2009 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 2009

Foundation Tier

Question				Key	
	A	trees	1		
One	В	vehicle exhaus	st gases 4		
One	C	vehicle mover	nents 2		
	D	wind	3		
	A	metal ore	1		
Two	В	reactive metal	4		
1 WO	C	transition meta	al 3		
	D	metal alloy	2		
	A	atoms	4		
Three	C compounds		3		
Timee			2		
	D	elements	1		
	A	diesel, steady			
Four	В	diesel, slowing	g down 1		
1041	C	petrol, acceler	ating 3		
	D	petrol, slowing	g down 4		
	A	Calcium (Ca)	2		
Five	В	Lithium (Li)	3		
1170	C	Gold (Au)	1		
	D	Iron (Fe)	4		
			_	~	
g:		A	В	С	D
Six		2	4	2	4
Seven		3	3	2	4
Eight		3	3	1	2
Nine		4	3	2	1

GCSE

SCIENCE A (4461)/CHEMISTRY (4421)

Objective Test Answer Key

CHY1AP (Products from Rocks)

November 2009

Higher Tier

Question			Key	
	A Calcium (Ca	2		
One	B Lithium (Li)	3		
One	C Gold (Au)	1		
	D Iron (Fe)	4		
	A Formulae A	$(ZnCO_3)$ 2		
Trees	B Formulae B	(C) 4		
Two	C Formulae C	(CO_2) 3		
	D Formulae D (2	(ZnO) 1		
	A	В	C	D
Three	3	3	1	2
Four	4	3	2	1
Five	2	4	4	1
Six	3	3	4	2
Seven	2	3	2	4
Eight	1	1	3	4
Nine	2	1	1	4



Unit: CHY1AP CHEMISTRY UNIT 1A

Centre:

Candidate Number:

UCI:

Series: BG09

19-NOV-09

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	1
1A	Calcium (Ca)		0	0	0	0	
1B	Lithium (Li)		0	0	0	0	
1C	Gold (Au)		0	0	0	0	
1D	Iron (Fe)		0	0	0	0	
		QUESTION TWO	1	2	3	4)
2A	Formula A		0	0	0	0	-
2B	Formula B		0	0	0	0	
2C	Formula C		0	0	0	0	

QL	JESTI 1	ON T 2	HRE 3	E 4
3A	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)

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

QI	JESTI	ON S	EVE	N
	1	2	3	4
7A	0	0	0	0
7B	0	0	0	0
7C	0	0	0	0
7D	0	60	0	0

	QUES 1	TION 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	ION	FIVE	
	1	2	3	4
5A	0	0	0	0
5B	0	0	0	0
5C	0	0	0	0
5D	0	- O	0	0)

	QUEST	ION	EIGH	T
	1	2	3	4
8A	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

	QUESTION ONE	1	2	3	4
trees		0	0	0	0
vehicle exhaust gases		0	0	0	0
vehicle movements		0	0	0	0
wind		0	0	0	\circ
	QUESTION TWO	1	2	3	4
metal ore		0	0	0	0
reactive metal		0	0	0	0
transition metal		0	0	0	0
metal alloy		0	0	0	0
	QUESTION THREE	1		3	4
atoms	QUEUTION TIME	.0	0	0	0
electrons		0	0	0	0
compounds		0	0	0	0
elements		0	0	0	0
	OUESTION FOUR	4	•	2	4
diesel, steady speed	QUEUTION	0	0	ं	0
		0	0	0	0
		0	0	0	-0
		0	0	0	0
	OUESTION FIVE				
Calcium (Ca)	QUESTION FIVE	1			4
					0
					0
non (re)		O	<u> </u>	0	0
	vehicle movements wind metal ore reactive metal transition metal metal alloy atoms electrons compounds	trees vehicle exhaust gases vehicle movements wind QUESTION TWO metal ore reactive metal transition metal metal alloy QUESTION THREE atoms electrons compounds elements QUESTION FOUR diesel, steady speed diesel, steady speed diesel, slowing down petrol, accelerating petrol, slowing down QUESTION FIVE Calcium (Ca) Lithium (Li) Gold (Au)	trees vehicle exhaust gases vehicle movements wind QUESTION TWO metal ore reactive metal transition metal metal alloy QUESTION THREE atoms electrons compounds elements QUESTION FOUR diesel, steady speed diesel, steady speed diesel, slowing down petrol, accelerating petrol, accelerating petrol, slowing down QUESTION FIVE 1 Calcium (Ca) Lithium (Li) Gold (Au)	trees vehicle exhaust gases vehicle movements wind QUESTION TWO metal ore reactive metal transition metal metal alloy QUESTION THREE 1 2 atoms electrons compounds elements QUESTION FOUR diesel, steady speed diesel, steady speed diesel, slowing down petrol, accelerating petrol, accelerating petrol, slowing down QUESTION FIVE 1 2 Calcium (Ca) Lithium (Li) Gold (Au)	trees vehicle exhaust gases vehicle movements wind QUESTION TWO 1 2 3 metal ore reactive metal transition metal metal alloy QUESTION THREE 1 2 3 atoms electrons compounds elements QUESTION FOUR QUESTION FOUR 1 2 3 diesel, steady speed diesel, steady speed diesel, slowing down petrol, accelerating petrol, accelerating petrol, slowing down QUESTION FIVE 1 2 3 Calcium (Ca) Lithium (Li) Gold (Au)

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

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	

	QUES	TION	EIGH	IT)
	1	2	3	4
8A	0	0	0	0
8B	0	0	0	0
8C	0	0	0	
8D	0	0	0	0)

	QUES1	rion	NINE	
	1	2	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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