

GCSE

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

Specification A

CHY1BP, CH1BSF & CH1BSH

Mark Scheme

2012 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 aqa.org.uk

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GCSE**SCIENCE A (4461)/CHEMISTRY (4421)**

Objective Test Answer Key

CHY1BP (Oils, Earth and Atmosphere)**November 2012**

Foundation Tier

Question	Key			
One	A	Atmosphere	1	
	B	Core	4	
	C	Crust	2	
	D	Mantle	3	
Two	A	Oil A	3	
	B	Oil B	2	
	C	Oil C	4	
	D	Oil D	1	
Three	A	alkanes	2	
	B	fuels	1	
	C	monomers	4	
	D	polymers	3	
Four	A	Polymer A	3	
	B	Polymer B	4	
	C	Polymer C	2	
	D	Polymer D	1	
Five	A	Oil hardens and additives are mixed in	4	
	B	Sunflower oil separates from the water	2	
	C	Water is added and the mixture is stirred	1	
	D	Sunflower oil is reacted with hydrogen	3	
	A	B	C	D
Six	3	1	3	1
Seven	2	4	1	2
Eight	3	1	3	3
Nine	1	2	2	1

GCSE**SCIENCE A (4461)/CHEMISTRY (4421)**

Objective Test Answer Key

CHY1BP (Oils, Earth and Atmosphere)**November 2012**

Higher Tier

Question	Key			
One	A	Oil hardens and additives are mixed in	4	
	B	Sunflower oil separates from the water	2	
	C	Water is added and the mixture is stirred	1	
	D	Sunflower oil is reacted with hydrogen	3	
Two	A	Formula A	4	
	B	Formula B	1	
	C	Formula C	2	
	D	Formula D	3	
	A	B	C	D
Three	3	1	3	3
Four	1	2	2	1
Five	3	2	4	2
Six	4	4	1	2
Seven	1	1	3	1
Eight	1	2	3	2
Nine	3	2	3	4

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

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

Unit : CHY1BP CHEMISTRY UNIT 1B

Centre :

Candidate Number :

UCI :

Series : BG12

Candidate Name :

06-NOV-12

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 Oil hardens and additives are mixed in.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B Sunflower oil separates from the water.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C Water is added and the mixture is stirred.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D Sunflower oil is reacted with hydrogen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO

	1	2	3	4
2A Formula A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B Formula B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C Formula C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D Formula D	<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 Atmosphere					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B Core					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C Crust					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D Mantle					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION TWO				1	2	3	4
2A Corn					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B Olive					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C Rapeseed					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D Sunflower					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION THREE				1	2	3	4
3A alkanes					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B fuels					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C monomers					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D polymers					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FOUR				1	2	3	4
4A Screwdriver					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B Disposable coffee cup					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C Bottle for soft drinks					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D Frying pan					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	QUESTION FIVE				1	2	3	4
5A Oil hardens and additives are mixed in.					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B Sunflower oil separates from the water.					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C Water is added and the mixture is stirred.					<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D Sunflower oil is reacted with hydrogen.					<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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