

#### **GCSE**

# Science A (4461) / Chemistry (4421)

Specification A

CHY1BP, CH1BSF & CH1BSH

### **Mark Scheme**

2011 Examination – June 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

## CHY1BP (Oils, Earth and Atmosphere) June 2011

#### Foundation Tier

Question		Key				
	Α	polymer (dus	t cover)		3	
One	В	polymer (tray	′)		2	
One	С	polymer (coa	t and hat)		4	
	D	polymer (cab	le cover)		1	
	Α	corn			4	
Two	В	olive	3			
	С	rapeseed			2	
	D	sunflower			1	
	Α	volcanic eruptions			4	
	В	convection currents			2	
Three	С	continental d	_ 1			
	D		3			
		radioactive processes 3			•	
	Α	alkenes			2	
Four	В	polymers			3	
Four	С	monomers			4	
	D	alkanes			1	
		0 0 0	, ,	1 41 4	•	
	A		separates as a layer		2	
Five	В		is reacted with hydro		3	
	С		is mixed with petrole		4	
	D	Mixture of su	nflower seeds and wa	ater is pressed	1	
		Α	В	С	D	
Six		1	2	1	3	
Seven		4 2 4			3	
Eight		3	3	3	2	
Nine		4	3	3	3	

#### **GCSE**

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

Objective Test Answer Key

## CHY1BP (Oils, Earth and Atmosphere) June 2011

Higher Tier

Question			Key				
	A Sunflow	er oil separates as a la	yer above the water	2			
One	<b>B</b> Sunflow	er oil is reacted with hy	ydrogen at 60°C	3			
Offe	<b>C</b> Sunflow	er oil is mixed with pet	roleum diesel	4			
	<b>D</b> Mixture	Mixture of sunflower seeds and water is pressed					
	A compou	nd A		3			
Two	B compou	nd B		4			
TWO	C compou	nd C		1			
	<b>D</b> compou	nd D		2			
	Α	В	С	D			
Three	3	3	3	2			
Four	4	3	3	3			
Five	1	2	4	3			
Six	3	2	2	3			
Seven	2	2	3	2			
Eight	1	4	2	3			
Nine	3	3	3	3			

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: 6M11

28-JUN-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	Sunflower oil separates as a layer above the water.	0	0	0	0	
1B	Sunflower oil is reacted with hydrogen at 60 degrees C.	0	0	0	0	
1C	Sunflower oil is mixed with petroleum diesel.	0	0	0	0	
1D	Mixture of sunflower seeds and water is pressed.	0	0	0	0	J.

		QUESTION TWO	1	2	3	4	)
2A	Compound A		0	0	0	0	
2B	Compound B		0	0	0	0	
2C	Compound C		0	0	0	0	
2D	Compound D		0	0	0	0	] .

QI	QUESTION THREE					
	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

(	QUEST	ION	OUR	?
	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
7.0	1	2	3	4
7A 7B	0	0	0	0
7C	0	0	0	0
7D	0	0	0	0

	QUES	TION	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

	QUESTION FIVE					
	1	2	3	4		
5A	0	0	0	0		
5B	0	0	0	0		
5C	0	0	0	0		
5D	0	0	0	0		

	QUESTI	ON	EIGHT	i i
8A	1	2	3	4
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.

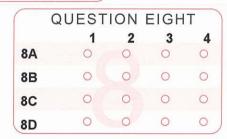
Questions ONE to NINE Choose one response 1-4 for each of the parts A-D

		QUESTION ONE	1	2	3	4
1A	Polymer (dust cover)		0	0	0	0
1B	Polymer (tray)		0	0	0	0
1C	Polymer (coat and hat)		0	0	0	0
1D	Polymer (cable cover)		0	0	0	0
_		QUESTION TWO	1	2	3	4
2A	Corn		0	0	0	0
2B	Olive		0	0	0	0
2C	Rapeseed		0	0	0	0
2D	Sunflower	-	0	0	0	0
		QUESTION THREE	1	2	3	4
3A	volcanic eruptions		0	0	0	0
3B	convection currents		0	0	0	0
3C	continental drift		0	0	0	0
3D	radioactive processes		0	0	0	0
		QUESTION FOUR	1	2	3	4
4A	alkenes		0	0	0	0
4B	polymers		0	0	0	0
4C	monomers		0	0	0	0
4D	alkanes		0	0	0	0
		QUESTION FIVE	1	2	3	4
5A	Sunflower oil separates as a layer above the water.			0	0	0
5B	Sunflower oil is reacted with hydrogen at 60 degrees C.			0	0	0
5C	Sunflower oil is mixed wit	h petroleum diesel.	0	0	0	0
5D	Mixture of sunflower seed	s and water is pressed.	0	0	0	0

	QUESTION 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	

QL	JESTI	ON S	EVE	V
	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	QUESTION		
	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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