

## GCSE

## Science A (4461)

Specification A

## CHY1BP, CH1BSF & CH1BSH

# **Mark Scheme**

2010 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 2010

#### Foundation Tier

Question			K	ey	
	Α	Nitrogen		2	
0.50	в	Oxygen		3	
One	С	Carbon dio	xide	1	
	D	Argon		4	
	Α	mantle		3	
Two	В	core		2	
	С	atmosphere	9	1	
	D	crust		4	
				4	
	A	Polymer A		1	
Three	В	Polymer <b>B</b>		4	
	С	Polymer C		2	
	D	Polymer D		3	
	Α	Hydrocarbo	on <b>A</b>	4	
	в	Hydrocarbo		2	
Four	с	Hydrocarbo		1	
	D	Hydrocarbo		3	
		,			
	Α	Burn in oxy	4		
Five	в	Test for uns	saturation	2	
Five	С	Add water a	and shake vigorously	3	
	D	React with	hydrogen	1	
					Γ
		Α	В	C	D
Six		4	2	1	3
Seven		1	2	3	4
Eight		2	3	1	2
Nine		4	3	3	2

#### GCSE SCIENCE A (4461) / CHEMISTRY (4421) Objective Test Answer Key CHY1BP (Oils, Earth and Atmosphere)

#### June 2010

#### Higher Tier

Question				Key				
020	Α	Burn in ox	ygen	4				
	в	Test for ur	saturation	2				
One	С	Add water	and shake vigorous	ly <b>3</b>				
	D	React with	hydrogen	1				
	Α	Formula <b>A</b>		2				
Two	в	Formula <b>B</b>		4	4			
TWO	С	Formula <b>C</b>		3				
	D	Formula <b>D</b>	I Contraction of the second	1				
				-				
		Α	В		С	D		
Three		2	3		1	2		
Four		4	3		3	2		
Five		4	1		3	2		
Six		1	2		2	4		
Seven		2	2		2	3		
Eight		2	4		3	3		
Nine		4	3		2	1		

SISSE SCIENCE



#### Unit : CHY1BP CHEMISTRY UNIT 1B

Centre :

Candidate Number :

Candidate Name :

UCI:

Series : 6M10 28-JUN-10

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 OF	NE 1	2	3	4
1A	Burn in oxygen	0	0	0	0
1B	Test for unsaturation	0	0	0	Ø
1C	Add water and shake vigorously	0	0	0	0
1D	React with hydrogen	0	0	0	0
	QUESTION TV	VO 1	2	3	4
2A	Formula A	0	0	0	0
2B	Formula B	0	0	0	0
	the second se	0	0	$\cap$	0
2C	Formula C	0	$\odot$	$\sim$	$\odot$

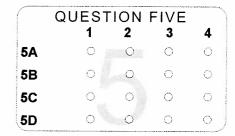
QU	ESTI		HRE	E
	1	2	3	4
3A	0	0	0	0
3B	0	0		0
3C	0	0	Q	0
3D	0	0	0	0)

	QUES	TION	SIX	
	1	2	3	4
6A	0	0	0	O
6B	0	0	G	0
6C	0	0	0	0
6D	0	0	Ó	0

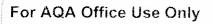
	QUEST	ION	OUF	2
	1	2	3	4
<b>4</b> A	0	O	0	0
4B	0	0	0	0
4C	0	0	0	0
4D	0	0	0	0

QUESTION SEVEN									
	1	2	3	4					
7A	0	0	0	0					
7B	Q	0	0	0					
7C	Õ	0	0	0					
7D	0	0	O	0					

	QUEST	ION	NINE	
	1	2	3	4
9A	0	O	O	O
9B	O	Q	Θ	0
9C	0	0	0	0
9D	0.9	O	Q	Q



	QUEST	ION E	EIGH <sup>-</sup>	Γ
	1	2	3	4
<b>8A</b>	0	0	Q	0
8B	0	0	0	0
8C	0	0	0	Ö
8D	0	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.
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Questions ONE to NINE Choose one response 1 - 4 for each of the parts A - D

	1					QI	JESTION			1	2	3	4		
		1A	Nitroge	ən			020110.			0	0	0	0	•	
		1B	Oxyge	n						0	0	0	0	•	
		1C	Carbo	n dioxid	е					:O.	Õ	0	0	•	
		1D	Argon							0	0	0	0	•	
		<		• • · · · · ·	 	QL	JESTION	ITWO		1	2	3	4		
		2A	mantle	•						0	0	$\bigcirc$	0	•	
		2B	core							0	O	0	0	•	
		2C	atmos	phere						O.	0	0	0	-	
		2D	crust							0	0	0	0	•	
		Sanana Cananan				QU	ESTION	THREE		1	2	3	4		
		3A	Polym	er A						Ô	Q	0	0	•	
		3B	Polym	er B						0	0	Ó	0	•	
		3C	Polym	ier C						0	Q	0	Ö.	•	
		3D	Polym	ier D						0	Ő	0	0	-	
					· · · · · · · · · · · · · · · · · · ·	OL.	JESTION	FOUR		1	2	3	4		
		<b>4</b> A	Hydro	carbon /	A	~ ~				0	0	0	0		
		4B	Hydro	carbon	В					0	0	O	0		
		4C	Hydro	carbon	С					O	O	$\odot$	0	•	
		4D	Hydro	carbon	D					0	Ó	O.	ō	•	
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				QI	UESTION	I FIVE		1	2	3	4		
		5A	Burn i	in oxyge	n					0	0	0	O.		
		5B	Test f	or unsat	uration					0	Ô	Ō	0	•	
		5C	Add w	ater and	d shake v	igorousl	у			0	Ô	0	0	•	
		5D	React	with hy	drogen					Ó	0	O	0	•	
	QUEST	ION	SIX	······		QL	JESTION	SEVE	N	/		QU	EST	ION	EIGHI
	1	2	3	4		7A		2 3	4		8A		1	2	3
6A	0	0	0	0		7B			0		8B		0	0	0
6B	0	0	0			7C	o 20		0		8C		04	0	0
6C	C O	0	0	0		70 7D	0 80		0 )	1	8D			o	0
6D			0												
						Q			- 4						
						9A	0	0	0						
						9B	o 🕴 🤇	o ás	0						
						9C	0	o V	0						
						9D	00	0							
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