



**GCSE**

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

*Specification A*

**CHY1BP, CH1BSF & CH1BSH**

**Mark Scheme**

*2011 Examination – March 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](http://www.aqa.org.uk)

Copyright © 2011 AQA and its licensors. All rights reserved.

#### COPYRIGHT

AQA retains the copyright on all its publications. However, registered centres for AQA are permitted to copy material from this booklet for their own internal use, with the following important exception: AQA cannot give permission to centres to photocopy any material that is acknowledged to a third party even for internal use within the centre.

Set and published by the Assessment and Qualifications Alliance.

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

**March 2011**

Foundation Tier

Question	Key			
One	<b>A</b>	Oxygen	<b>4</b>	
	<b>B</b>	Argon	<b>2</b>	
	<b>C</b>	Carbon dioxide	<b>1</b>	
	<b>D</b>	Neon	<b>3</b>	
Two	<b>A</b>	Layer <b>A</b>	<b>1</b>	
	<b>B</b>	Layer <b>B</b>	<b>3</b>	
	<b>C</b>	Layer <b>C</b>	<b>4</b>	
	<b>D</b>	Layer <b>D</b>	<b>2</b>	
Three	<b>A</b>	Vegetable oil <b>A</b>	<b>1</b>	
	<b>B</b>	Vegetable oil <b>B</b>	<b>3</b>	
	<b>C</b>	Vegetable oil <b>C</b>	<b>2</b>	
	<b>D</b>	Vegetable oil <b>D</b>	<b>4</b>	
Four	<b>A</b>	bromine	<b>2</b>	
	<b>B</b>	hydrogen	<b>3</b>	
	<b>C</b>	nickel	<b>4</b>	
	<b>D</b>	water	<b>1</b>	
Five	<b>A</b>	Formula <b>A</b>	<b>2</b>	
	<b>B</b>	Formula <b>B</b>	<b>3</b>	
	<b>C</b>	Formula <b>C</b>	<b>1</b>	
	<b>D</b>	Formula <b>D</b>	<b>4</b>	
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Six	<b>2</b>	<b>3</b>	<b>4</b>	<b>4</b>
Seven	<b>4</b>	<b>1</b>	<b>3</b>	<b>4</b>
Eight	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>
Nine	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>

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

**March 2011**

Higher Tier

Question	Key			
One	<b>A</b>	Formula A	<b>2</b>	
	<b>B</b>	Formula B	<b>3</b>	
	<b>C</b>	Formula C	<b>1</b>	
	<b>D</b>	Formula D	<b>4</b>	
Two	<b>A</b>	Molecule A	<b>1</b>	
	<b>B</b>	Molecule B	<b>4</b>	
	<b>C</b>	Molecule C	<b>2</b>	
	<b>D</b>	Molecule D	<b>3</b>	
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
Three	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>
Four	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>
Five	<b>3</b>	<b>1</b>	<b>2</b>	<b>2</b>
Six	<b>2</b>	<b>3</b>	<b>4</b>	<b>4</b>
Seven	<b>4</b>	<b>4</b>	<b>1</b>	<b>2</b>
Eight	<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>
Nine	<b>3</b>	<b>3</b>	<b>4</b>	<b>3</b>

Unit : CHY1BP CHEMISTRY UNIT 1B

Centre :

Candidate Number :

UCI :

Series : 3G11

Candidate Name :

02-MAR-11

*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	Formula A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Formula B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Formula C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Formula D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	Molecule A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Molecule B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Molecule C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	Molecule 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"/>

For AQA Office Use Only

2213



2213

# 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	Oxygen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1B	Argon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1C	Carbon dioxide	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1D	Neon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO		1	2	3	4
2A	Layer A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2B	Layer B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2C	Layer C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2D	Layer D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE		1	2	3	4
3A	Vegetable oil A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3B	Vegetable oil B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3C	Vegetable oil C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D	Vegetable oil D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR		1	2	3	4
4A	bromine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4B	hydrogen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4C	nickel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4D	water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE		1	2	3	4
5A	Formula A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5B	Formula B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5C	Formula C	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5D	Formula D	<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"/>

For AQA Office Use Only

2213



2213