STOKE DAMEREL

Scott
Care to learn
Learn to care

Exam Board:	AQA
Subject:	Chemistry
Paper:	Chemistry Paper 1
Marks available:	**70**
Length of paper:	75 minutes
Topics:	Atomic structure, periodic table, bonding, quantitative chemistry, chemical changes, energy changes

Exam Information, guidance and hints

Command words:
- Complete - Fill in gaps/add labels
- Balance - Add large numbers only in front of chemical formula
- Give - Recall a simple fact
- Draw - Draw a symbol, diagram or graph
- Describe - Give details about an event, idea or a process
- Explain - Give reasons for an event, idea or process (use because/so)
- Define - write the meaning of a word or term
- Compare - Identify how things are similar/different
- Suggest - Use your own knowledge in an unfamiliar context
- Plan - Write a method for carrying out a practical
- Calculate - Use numbers in a formula
- Name - Recall the name of a piece of equipment or person
- Estimate - Use data and evidence to predict a value

Online Resources
- [Cognito past papers](#)

Hints/tips:
- Ensure you tick the right number of boxes on multiple choice questions
- Use a ruler for straight lines of best fit but not curved lines.
- For calculation questions, use the equations provided
- Ensure you give to answers to the stated number of significant figures or decimal places
- When asked about observations, refer to what you can see happening, not what you know is happening at a molecular level
- When comparing, use comparative language such as whereas, larg**er**, small**er** etc
- Ensure you refer to data in graphs and tables when asked to in order to support your explanations
- Uncertainty is calculated by dividing the range of the data by 2.
- Positive ions have lost electrons to become positive and negative ions have gained electrons to become negative
- Concentration = mass / volume
- **Higher only:** Concentration = moles / volume

Foundation Example Papers and Markschemes			**Higher Example Papers and Markschemes**		
[2018 F Paper](#)	[Annotated P1](#)	[2018 MS](#)	[2018 H paper](#)	[Annotated P1](#)	[2018 MS](#)
[2019 F Paper](#)	[Annotated P1](#)	[2019 MS](#)	[2019 H Paper](#)	[Annotated P1](#)	[2019 MS](#)

PLC Chemistry Paper 1 - Mock 1

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Atoms	Identify compounds, elements and mixtures	R447	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.03			
Atoms	Calculating atomic mass using isotope abundance	R646	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.02			
Atoms	Identify the correct equipment to separate mixtures	R550	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.06			
Atoms	Identify the numbers of protons, neutrons and electrons in an atom	R945	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.01			
Atoms	Describe the reactions of the group 1 elements	R406	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.14			
Atoms	Describe the reactions of the group 7 elements	R580	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.15			
Atoms	Describe the process of distillation	R550	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_1.07			
Bonding	Describe ions are formed	R868	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.01			
Bonding	Explain the properties of alloys	R596	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.1			
Bonding	Describe the structure of fullerenes and graphene	R916	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.09			
Bonding	Describe the structure of diamond and graphite	R916	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.08			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Bonding	Describe the properties of ionic compound	R562	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.03			
Bonding	Describe the properties of covalent compounds	R876	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_2.07			
Chemical changes	Identify displacement reactions	R640	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.06			
Chemical changes	Describe how molten electrolysis works	R672	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.1			
Chemical changes	Explain how to make a pure dry sample of salt	R412	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_11.01			
Chemical changes	Explain how to separate metals from oxides	R483	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.08			
Chemical changes	Explain the difference between acids and bases	R529	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.01			
Chemical changes	Explain the difference between strong and weak acids	R629	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.03			
Chemical changes	Describe the electrolysis of aluminium oxide works	R672	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_4.11			
Quantitative chemistry	Calculating mass and moles	R624	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.03			
Quantitative chemistry	Calculate relative formula mass and percentage by mass	R195	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.01			
Quantitative chemistry	Calculate the concentration of solutions	R807 **H:**	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_3.08			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
		R262				
Energy changes	Investigate how temperature changes in different practical situations	R466	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_11.04			
Energy changes	Describe what endothermic and exothermic reactions are	R833	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.01			
Energy changes	Calculate bond energies to determine if a reaction is endothermic or exothermic	R769	https://cognitoedu.org/coursesubtopic/c2-gcse-aqa-h-t_5.02			