

Exam Board:	AQA
Subject:	Chemistry
Paper:	Chemistry Paper 2
Marks available:	100
Length of paper:	1 hour 45 minutes
Topics:	Rate and extent of chemical change, organic chemistry, chemical analysis, the atmosphere, using resources and skills

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: 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, larger, smaller 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. Higher only: Volume = number of moles x 24 						
Foundation Example Papers and Markschemes			Higher Example Papers and Markschemes					
<u>2018 F Paper</u>	Annotated P2	<u>2018 MS</u>	<u>2018 H paper</u>	Annotated P2	<u>2018 MS</u>			
<u>2019 F Paper</u>	Annotated P2	<u>2019 MS</u>	<u>2019 H Paper</u>	Annotated P2	<u>2019 MS</u>			
<u>2020 F Paper</u>	Annotated P2	<u>2020 MS</u>	<u>2020 H Paper</u>	Annotated P2	<u>2020 MS</u>			





PLC Chemistry Paper 1 - Mock 1

Торіс	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Rates of Reaction	Describe how to investigate the effect of changing concentration on the rate of a reaction using the disappearing cross method	R280	https://www.youtube.com/watch?v=N5p06i9ilmo			
Rates of Reaction	Explain the effect of increasing the concentration or temperature on the rate of a reaction	R895	https://www.youtube.com/watch?v=-4HXaUBbv04			
Rates of Reaction	Explain the effect of adding a catalyst to a reaction	R601	https://www.youtube.com/watch?v=-4HXaUBbv04			
Rates of Reaction	Draw an energy profile diagram to represent the effect of a catalyst on a chemical reaction	R601	https://www.youtube.com/watch?v=-4HXaUBbv04			
Rates of Reaction	Describe what a reversible reaction and equilibrium are	R768	https://www.youtube.com/watch?v=ty9TczsW5ew			
Rates of Reaction	HT ONLY: Use Le Chatelier's principles to explain changes in reaction yields	R115	https://www.youtube.com/watch?v=IYyoncESnm Q			
Rates of Reaction	HT ONLY: Calculate the number of moles of a gas produced in a reaction	R985	https://www.youtube.com/watch?v=Qn5CgfokdW k			
Organic Chemistry	Draw the displayed structure of hydrocarbons	R837	https://www.youtube.com/watch?v=CX2IYWggEB			
Organic Chemistry	Describe the structure of hydrocarbons	R837	https://www.youtube.com/watch?v=CX2IYWggEB			
Organic Chemistry	Describe the structure of naturally occurring polymers like DNA	R692	https://www.youtube.com/watch?v=JYiUvB_GafM			



Торіс	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Organic Chemistry	Describe how to test for the presence of alkenes	R418	https://www.youtube.com/watch?v=qEm-CaqhcO s			
Organic Chemistry	Draw polymers and evaluate their uses	R723	https://www.youtube.com/watch?v=EP0zfm_FVqc			
Organic Chemistry	Describe how fractional distillation is used to produce different fractions	R205	https://www.youtube.com/watch?v=CjmriZq5xRo			
Organic Chemistry	HT ONLY: Identify the functional groups of esters and explain how polymerisation works	R723	https://www.youtube.com/watch?v=U-eCXeFwTg Y&t=18s			
Chemical Analysis	Describe how to carry out paper chromatography	R638	https://www.youtube.com/watch?v=TdJ57SQ6GA Q			
Chemical Analysis	Analyse and calculate Rf values from chromatograms	R720	https://www.youtube.com/watch?v=TdJ57SQ6GA			
Chemical Analysis	Describe how to test for different gases	R443	https://www.youtube.com/watch?v=bcRGfSIMIMw			
Chemical Analysis	Describe how to test for different ions in chemicals	R172	https://www.youtube.com/watch?v=4iZRs4XIJOE			
Chemical Analysis	HT ONLY: Explain why instrumental methods of chemical analysis are preferable	R487	https://www.youtube.com/watch?v=1BCc_RrrSSw &t=181s			
Atmosphere	Identify the products of incomplete combustion	R221	https://www.youtube.com/watch?v=WI54p_xSs8Q			
Atmosphere	Describe the effects of atmospheric pollutants	R119	https://www.youtube.com/watch?v=2ri95j0cShg&t =140s			
Atmosphere	Describe how the percentages of different	R225	https://www.youtube.com/watch?v=I0h3M0Pso			



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	gases in the atmosphere have changed over time						
Resources	Describe the structure and uses of composites and ceramics	R287	https://www.youtube.com/watch?v=q7VAq8t2gj0				
Resources	Describe how to calculate the mass of salt found in a salt solution	R759	https://www.youtube.com/watch?v=DikcEq2wg8g &t=167s				
Resources	Describe how the haber process is used to make ammonia	R511	https://www.youtube.com/watch?v=1_HoWz5Kxfk &t=20s				
Resources	Describe the processes involved in producing potable water from groundwater and sewage	R898	https://www.youtube.com/watch?v=PDeiRIQvWn M				
Resources	Explain what alloys are and evaluate why they are useful	R907	https://www.youtube.com/watch?v=QRDctnk7sF4				
Skills	Draw a variety of different types of graph (bar, scatter)	R703 R148	https://www.youtube.com/watch?v=VM3i6-gvKSA				
Skills	Convert numbers into standard form	R778	https://www.youtube.com/watch?v=H3ewmorcYjU &t=5s				
Skills	Identify variables in an investigation	N/A	https://www.youtube.com/watch?v=nKbUbfadxRU				
Skills	HT ONLY: Draw tangents to graphs to then calculate the gradient of a line	R771	https://www.youtube.com/watch?v=6LV63WtuvJg				