

Subject	Chemistry (triple science)			
Title/Topic		Format	Length	Date & Time
Paper 1 – Chemistry		Written	1 hour 45 minutes	Wed 23 November Afternoon
Paper 2 – Chemistry		Written	60 minutes	Tue 29 November Morning

In this Advent assessment I will be asked to show I can...

Paper 1 – HT

- Know how the properties of elements are linked to their position on the periodic table
- Compare group 1 and transition metals
- Draw electronic structures of elements
- Explain how substances conduct electricity
- Describe how ionic bonds form between metals and non-metals
- Plan a method to investigate temperature changes in reactions
- Interpret graphs
- Interpret reaction profile diagrams
- Describe the structure, bonding and properties of the allotropes of carbon
- Use the link between the mole and Avogadro's constant
- Know how to produce a pure dry sample of a soluble salt from an acid and an insoluble metal oxide
- Write ionic equations for the displacement reactions of metals
- Use the terms oxidation and reduction
- Know how to make a simple chemical cell
- Explain the trends in groups of the periodic table
- Calculate relative atomic mass
- Compare the molten and aqueous electrolysis of a substance
- Explain changes at the electrodes during electrolysis
- Use a reactivity series to compare substance's reactivity
- Carry out reacting mass calculations
- Draw dot and cross diagrams
- Calculate the volume of gases produced in reactions
- Know how pH relates to acid strength and concentration
- Carry out titration calculations

Paper 1 – HT

- Draw display structures of organic molecules
- Give the test and positive result for cations and anions
- Interpret experimental data
- Apply the law of conservation of mass
- State why a substance would be heated to a constant mass
- Explain the process of fractional distillation
- Know the uses of petrochemicals
- Write equations for the combustion of hydrocarbons



- Know common atmospheric pollutants and their sources
- Relate the properties of hydrocarbons to their chain lengths
- Describe the process of cracking
- Describe how sewage is treated
- Interpret information of the production of potable water
- Explain why certain processes are required to make water potable
- Define the word pure
- Explain how the Earth's atmosphere has changed over time
- Describe how fossil fuels form
- Investigating rates by turbidity
- Determine rates of reaction from tangents on a graph
- Explaining changes to rates of reaction using collision theory

What should I do to revise and prepare for this assessment?

To prepare for this assessment:

- 1. Complete look, cover, write and check on the knowledge organiser statements from atomic structure & periodic table and the structure and bonding booklets.
- 2. Make flash cards of key words and their definitions.
- 3. Read through the lesson content in the booklets and make notes to help you learn the information.

What useful websites/resources could I use to help me prepare?

BBC bitesize

https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb

GCP revision guides Booklets