



Subject	Triple science - chemistry		
Title/Topic	Format	Length	
Paper 1 –	MCQ/written paper	50min	

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

- Describe the structure and layout of the periodic table
- Compare group 1 metals and transition metals
- Represent the electron arrangement around atoms of an element
- Explain why elements in the same group react in similar ways
- Describe the reactions of group 1 metals with water
- Explain what an isotope is
- Recall the structure of an atom and the mass and charge of the subatomic particles
- Compare the size and uses of nanoparticles to bulk matter
- Explain how the structure and bonding of substances relates to their properties
- Calculate the surface area:volume ratio of a nanoparticle
- Use state symbols in equations
- Describe, in terms of electrons, what happens when a metal and non-metal react
- Apply the law of conservation of mass
- Calculate relative formula masses, amounts in moles and carry out reacting mass calculations.

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, the structure and bonding and quantitative chemistry 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?

AQA revision guides

<https://www.bbc.co.uk/bitesize/guides/zgnxcj6/revision/1> for revision of atomic structure.

<https://www.bbc.co.uk/bitesize/guides/ztrxdxs/revision/8> for reviewing the properties of different groups in the periodic table

<https://www.bbc.co.uk/bitesize/guides/zwt2k2p/revision/1> for reviewing the periodic table

<https://www.bbc.co.uk/bitesize/topics/zq6h2nb> for revision of the structure and bonding topic