

6th Form Preparation work for Chemistry



Complete research and create a timeline on the development of the atomic model

To include the following scientists, their models

- Boyle
- Dalton
- Rutherford
- Bohr

Time: 1 hour



Label features of the periodic table

To include the following:

- Groups
- Periods
- Metals and non-metals
- Electron configuration links
- Definition of relative mass number and atomic number

Time: 30 minutes



Create flashcards on common ions that you need to know

Nitrate	Sulfate	Carbonate
Ammonium	Hydroxide	Group 1 ions
Group 2 ions	Group 7 ions	Aluminium
Silver	Oxide	Hydrogen carbonate
Phosphate	Zinc	

Time: 45 minutes



Watch the balancing symbol equation video and make sure you remember how to balance equations.

[Balancing symbol equation video](#)

Time: 15 mins



Play the balancing symbol equation game where you put your balancing symbol equation skills into practise

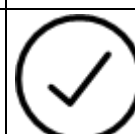
[Balancing symbol equation game](#)

Time: 15 mins



Revise GCSE content on moles, empirical formula, calculating concentration. Create a revision resource to summarise.

Time: 30 minutes



Complete questions on moles. Mark and correct your work

[Moles Calculation practice](#)

[Answers](#)

Time: 1 hour



Summarise endothermic and exothermic reactions. Find real life examples for each. Include energy profile diagrams in your summary

Time: 1 hour



Create a summary on the different types of bonding, explaining properties and examples of each

- Include ionic, simple covalent, giant covalent and metallic
- Melting and boiling points
- Ability to conduct electricity
- Solubility

Time: 1 hour



Listen to the Chemistry for your life podcast explaining how the element helium changes your voice. Write a paragraph to explain the science behind the high squeaky voice we hear when we breathe it in.

[Podcast: How does helium change your voice.](#)

Time: 1hr



Watch the video where Professor Jim Al-Khalili tells the story of the greatest scientific discovery ever - that everything is made of atoms. Write 10 interesting facts you learnt while watching.

[Video: Atoms 1 – Clash of the Titans](#)

Time: 1 hour

