



Year 7 Chemistry Learning Map



- TERM 1 -

Hazards in the Lab (Intro Topic) & Particles

This topic introduces the basic building blocks of matter and prepares us to explore the composition and properties of materials.



LINKS TO PRIOR LEARNING

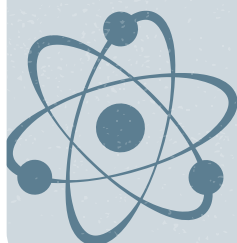
Previously you would have learnt about the properties of the three states of matter (solids, liquids and gases) and also explored methods used to separate mixtures, such as filtration and evaporation.



- TERM 2 -

Atoms, Elements & Compounds

This topic explains the differences between atoms, and molecules, elements and compounds. It looks at the symbols and formulae for elements and compounds. The involvement of chemical reactions in the formation and decomposition of compounds is also covered. It links these with the ideas of particle models, naming compounds and word equations.



LINKS TO PRIOR LEARNING

Previously you would have learnt about the properties of the three states of matter (solids, liquids and gases) and that some materials change state when they are heated or cooled, and the temperature at which this happens in degrees Celsius (°C). We will know that dissolving, mixing and changes of state are reversible changes and that the formation of new materials, is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.



- TERM 3 -

Mixtures & Separation Techniques

Providing clean drinking water is just one of the important uses of separation techniques. In this topic students will learn simple techniques for separating mixtures: filtration, evaporation, distillation and chromatography.



LINKS TO PRIOR LEARNING

Previously you would have learnt about the processes of evaporation and condensation in the water cycle and how some materials can dissolve in a liquid to form a solution. Also that dissolving, mixing and changes of state are all reversible changes.

