

Science Curriculum Map

Chemistry

Year 6 -

Upper KS2

Year 5 -

- Know the comparison between everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.
- Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.
- To use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.
- Know and give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.
- Know that dissolving, mixing and changes of state are reversible changes.
- To explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.

Lower KS2

Year 4 -

- Know how to group materials together, according to whether they are solids, liquids or gases.
- Know that materials change state when heated/cooled
- Know that evaporation and condensation play a part in the water cycle and associate the rate of evaporation with temperature.

Year 3 -

- Know how to group together different kinds of rocks on the basis of their appearance and simple physical properties.
- Know how fossils are formed when things that have lived are trapped within rock.
- Know that soils are made from rocks and organic matter.

Year 2 -

- Know why a variety of everyday materials, including wood, metal, plastic, glass, brick, water, rock, paper and cardboard are used for a particular use.
- Know how solid objects made from some materials can be changed by squashing, bending, twisting and stretching (applying a force).

KS 1

EYFS

Year 1 -

- Know the name of what an object is made.
- Know the name of a variety of everyday materials, including wood, plastic, glass, metal, water, rock (and brick, paper and cardboard).
- Know the simple physical properties of a variety of everyday materials.

EYFS -

- Look closely at similarities, differences and change.
- Look at similarities and differences in relation to objects and materials.
- Explain why some things occur and talk about changes.