



UKS2 Sticky Knowledge: Scientific Concepts

Biology

I know the life cycle of different living things e.g. mammal, amphibian, insect and bird.

I know the differences between different life cycles.

I know the process of reproduction in plants.

I know the process of reproduction in animals.

I know how to create a timeline to indicate stages of growth in humans.

Chemistry

I know how to compare and group materials based on their properties (e.g. hardness, solubility, transparency, conductivity, [electrical and thermal], and response to magnets).

I know and can explain how a material dissolves to form a solution.

I know and can show how to recover a substance from a solution.

I know and can demonstrate how some materials can be separated (e.g. through filtering, sieving and evaporation).

I know and can demonstrate that some changes are reversible and some are not.

I know how some changes result in the formation of new material and that this is usually reversible.

Physics

I know what gravity is and its impact on our lives.

I know and can identify the effect of air, water resistance and friction.

I know how to explain how levers, pulleys and gears allow a smaller force to have a greater effect.

I know about and can explain the movement of the Earth and other planets relative to the Sun.

I know about and can explain the movement of the Moon relative to the Earth.

I know and can demonstrate how night and day are created and describe the Sun, Moon and Earth using the term spherical.