



# Year 4 Sticky Knowledge: Scientific Concepts

## Biology

I know how to identify and name parts of the human digestive system and know the functions of the organs involved.

I know and can identify the different types and functions of human teeth

I know how to use and construct food chains to identify producers, predators and prey.

I know the function of different parts of flowering plants and trees.

I know how to use classification keys to group, identify and name living things.

I know how changes to an environment could endanger living things.

## Chemistry

I know the temperature at which materials change state.

I know about and can explore how some materials can change state.

I know the part played by evaporation and condensation in the water cycle.

I know how to group materials based on their state of matter (solid, liquid, gas).

## Physics

I know about how to identify and name appliances that need electricity to function.

I know how to construct a series circuit and can identify and name it's components (including cells, wires, bulbs, switches and buzzers).

I know how to predict and test whether a lamp will light within a circuit and understand the function of a switch.

I know how sound is made, associating some of them with vibrating and how sound travels from a source to our ears.

I know the correlation between pitch and the object producing the sound and the correlation between the volume of the sound and the strength of the vibrations that produced it.

I know what happens to a sound as it travels away from it's source.