Year 4 Progression in Science					
Biology			Chemistry	Physics	
Animals including humans	Living things and their habitats	Plants	Materials	Forces	How the world works
Humans: the digestive system, teeth  I know the simple functions of the basic parts of the digestive system in humans  I know the different types of teeth in humans and their simple functions  Animals: food chains  I know how to construct and interpret a variety of food chains, identifying producers, predators and prey	Classification  I know that living things can be grouped in a variety of ways  I know that I can use classification keys to help group, identify and name a variety of living things in the local and wider environment  Habitat environments  I know that environments can change and that this can sometimes pose dangers to living things		States of Matter  I know how to compare and group materials together, according to whether they are solids, liquids or gases  I know how some materials change state when they are heated or cooled  I know the part played by evaporation and condensation in the water cycle and I can associate the rate of evaporation with temperature	I know some common appliances that run on electricity     I know how to construct a simple series electrical circuit as a complete loop with a battery, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers     I know that a switch opens and closes a circuit     I know some common conductors (metals) and insulators	I know how sounds are made through something vibrating     I know that vibrations from sounds travel through a medium to the ear     I know how to find patterns between the pitch of a sound and features of the object that produced it     I know how to find patterns between the volume of a sound and the strength of the vibrations that produced it     I know that sounds get fainter as the distance from the sound source increases

# Humans: the digestive system, teeth

- I will know the simple functions of the parts of the digestive system in humans
- I will know the different types of teeth in humans and their simple functions

#### **Animals: food chains**

- I will know how to construct and interpret food chains, identifying producers, predators and prey
- I will know how to construct and interpret food webs, identifying producers, predators and prey

# Classification

- I will know that living things can be grouped in a variety of ways
- I will know that classification keys can help to group, identify and name living things

## **Habitat environments**

- I will know how a habitat changes throughout the year
- I will know that humas can impact on environments both positively and negatively

## **States of Matter**

- I will know how to compare and group together substances according to whether they are solid, liquids or gasses
- I will know how some materials change state when they are heated or cooled: melting and freezing
- I will know how some materials change state when they are heated or cooled: evaporation and condensation
- I will know the part played by evaporation and condensation in the water cycle

## **Electricity**

- I will know some common appliances that run on electricity
- I will know how to construct a simple series electrical circuit (cells, wires, bulbs and buzzers)
- I will know that a simple series circuit is complete loop with a battery
- I will know that a switch opens and closes a circuit
- I will know that some materials are electrical conductors and some are electrical insulators

#### Sound

- I will know that sounds are caused by vibrations
- I will know that the pitch of a sound is related to the features of the object that produced it
- I will know the relationship between the volume of a sound and the strength of the vibrations that produced it
- I will know sounds get fainter as the distance from the sound source increases