

My Science Targets and Achievements

Experimental and Investigative Science

I can:

- describe what I see
- talk about my work
- draw pictures and simple charts about my work
- ask questions using words such as *How?* and *Why?* **Level 1**

I can:

- suggest ways to find out more about things I want to know
- use simple equipment to help me
- describe what I found out
- compare objects/living things/things that happen
- record what I see on tables or charts
- say if my results were what I expected
- use my senses to find out about things
- ask questions such as 'What will happen if..?' **Level 2**

I can:

- predict what I think will happen in an experiment
- use a range of science equipment to find things out
- carry out a 'fair' test or experiment and explain how it is fair
- record the results of my tests or experiments in a variety of ways e.g. tables/charts/using the computer
- say what I have found out from my results
- recognise when a test is fair **Level 3**

Life Processes and Living Things

I can:

- tell the difference between living things and things that have never been alive
- name the main parts of my body e.g. hand/elbow/knee
- name the main parts of a flowering plant e.g. stem/leaf/flower/root
- describe animals that have similar features
- describe plants that have similar plants
- describe differences between myself and others
- name some animals that we often see around us
- name some plants that we often see around us

Level 1

I know:

- that animals and plants need food, water, air and light to survive
- that humans and other animals have young that grow into adults
- that flowering plants grow and produce seeds which then produce new plants
- how to sort animals and plants into groups using simple facts e.g. number of legs/shape of leaf
- that living things live in different places e.g. ponds/woods
- that humans and other animals have senses, see/hear/smell/touch/taste

Level 2

I know:

- that humans and other animals all move, grow and reproduce
- why a healthy diet and exercise are important to humans and other animals
- why lack of water, light and the cold harms plants
- that animals live in the habitats that are most suited to them e.g. fish/fins/swim/water - birds/wings/fly/trees

Level 3

Materials and their Properties

I can:

- describe materials by touching (texture) and looking at them (appearance) e.g. metal/shiny; wool/soft; sand/gritty **Level 1**

I know:

- a range of common materials e.g. metal/plastic/wood/rock/paper
- how to describe similarities and differences between them
- how to sort materials into groups e.g. hard/soft/rough/smooth/transparent/magnetic
- that some materials can be changed by heating/cooling e.g. water/chocolate/bread/clay
- that some materials can change shape by bending/ stretching/ twisting/squashing e.g. plasticine /elastic **Level 2**

I can:

- explain my reasons for sorting materials into certain groups e.g. because they are all hard/strong/flexible/magnetic
- explain why materials such as glass/wool/wood have many uses for us
- explain why some materials are more suitable for particular purposes than others e.g. glass/transparent/windows
- understand that heating or cooling materials can cause them to change e.g. water/clay/dough
- understand that some changes can be reversed e.g. boiling water, and others cannot e.g. burning wood
- explain how mixing materials e.g. adding salt to water can make them change **Level 3**

Physical Processes

I can:

- name some things that use electricity at home
- name some everyday things that move, speed up, slow down or change direction e.g. bike/car
- name a variety of light sources e.g. sun/stars
- name a variety of sound sources e.g. voices/TV/cars **Level 1**

I can:

- construct simple circuits using batteries/bulbs/wires/buzzers

I know:

- that light can be bright and/or coloured
- that there are many different kinds of sounds and that some sounds are louder than others
- that both pushes and pulls can make objects move/speed up/ slow down/ change direction **Level 2**

I know:

- that darkness is the absence of light
- that sounds travel away from their sources, getting fainter as they do so
- that sounds are heard when they enter our ears
- that if a bulb does not light up there must be a break in the circuit
- that both pushes and pulls are examples of forces
- that these forces can make things speed up/slow down/change direction
- that some forces can change the shape of objects **Level 3**