

... I can plan experiments to answer scientific questions.

...I know that for an experiment to be a fair test only one thing at a time can be changed.

... I know that living things change during their lifetime and that these changes make up their life cycle.

... I know that different animals have different life cycles.

...I can spot what things need to be controlled for an experiment to be a fair test.

...I can use different types of equipment and take accurate and precise measurements.



... I can describe the life cycle of a mammal.

... I can describe the life cycle of a bird.

... I know that repeating measurements lets me see how reliable my results are.

... I can understand and use classification keys and labelled diagrams.

### The Year 5 Scientist 'I can...'

... I can describe the life cycle of an insect.

... I can describe the life cycle of an amphibian.

... I can display the results of experiments in tables, bar charts, line graphs and scatter graphs.

... I can make predictions using the results of an

... I can write and talk about the things I've found out in my investigations, using simple scientific words.

... I know that sexual reproduction is when an egg from a female is fertilised by a sperm from a male.

... I can spot patterns in the results of an experiment.

... I can write a conclusion that explains the results of

... I know that plants reproduce by sexual and asexual reproduction.

... I can say whether the results of an experiment are reliable or not.

I know what evidence is and can say whether evidence supports a scientific idea or not.

... I can use my results to plan more experiments.

... I know that asexual reproduction is when a new living thing grows from a part of another living thing.

... I know that mixtures of different-sized solids can be separated by sieving.

...I know that solutions can be separated by evaporation.

... I know that the Sun, the Moon, the Earth and seven other planets are part of the solar system.

... I know that the Earth and the other planets move around the Sun

... I know that a mixture of a solid and a liquid can be separated by filtering.

I know that cooking and burning are irreversible changes.

... I know that the Moon moves around the Earth.

... I know that the Sun, the Earth and the Moon are all roughly spherical.

... I can work out how to separate a mixture using filtering, sieving or evaporating.

... I know that a reversible change means that a material will change back to how it was before.

... I can explain that day and night are caused by the earth rotating (spinning).

... I can explain why the Sun appears to move across the sky.

... I know that mixing, dissolving and changing state are all reversible changes.

... I can group materials depending on whether they're conductors or insulators

... I can put materials into groups depending on how hard, transparent (see-through) or soluble they are.

... I can group materials depending on whether they're conductors or insulators of heat.

... I know that irreversible changes make new materials.

... I know that some materials are attracted to magnets.

... I can do tests to find the best material to use for a specific job.

I know that if you mix an acid (like vinegar) and bicarbonate of soda they react (change), and the change is irreversible.

... I can explain why some materials have specific uses.

... I know that dissolving a solid in a liquid makes a solution.



The Year 5 Scientist  
'I can...!'

Forces

I know that gravity causes unsupported objects to fall towards the Earth.

I know that objects moving through air are slowed down by air resistance.

I know that friction is the force between two surfaces that are touching.

I know that friction gives us grip and produces heat

... I can explain how levers, pulleys and gears work



... I know that objects moving through water are slowed down by water resistance.

The Year 5 Scientist  
'I can...'

... I know that mechanisms make it easier for us to do work by allowing a small force to have a big effect.

... I know that mechanisms are things like levers, pulleys and gears.

