

# Science Knowledge Year 3

## Plants

Know the different requirements for life and growth in plants and how they vary from plant to plant

Know how flowers play a part in the life cycle of flowering plants

Know how water is transported within plants

Know the functions of different parts of flowering plants

Know how magnets attract or repel each other and attract some materials and not others

Know how fossils are formed when things that have lived are trapped within rock

Know the simple physical properties of various rock types through the means of experiments

I can explain similarities, differences or changes related to simple scientific ideas and processes

I can use straightforward scientific evidence to answer questions or to support my findings

I can use a range of equipment, including thermometers and data loggers

I can set up simple practical enquiries, comparative and fair tests

## Working Scientifically

I can gather, record, classify and present data in a variety of ways to help in answering questions

I can use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

I can ask relevant questions and use different types of scientific enquiry to answer them

I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

I can record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables

## Rocks

Know that soil is made from rocks and organic matter

Know how the size of shadows change based on the object blocking the light and the distance from the light source

Know that light from the sun is dangerous and that there are ways to protect eyes

Know that animals including humans need the right types and amount of nutrition

## Forces and Magnets

Know that some forces need contact between two objects, but magnetic forces can act at a distance

Know which materials are attracted to a magnet and why some are not

Know that 2 magnets will attract or repel by looking at which poles are facing

Know that magnets have 2 poles

## Light

Know that light is required to see objects and that darkness is the absence of light

Know that shadows are formed when the light from a light source is blocked by a solid object

## Animals including humans

Know that animals, including humans, cannot make their own food, they get nutrition from what they eat

Know how things move on different surfaces

Know that light is reflected from surfaces

Know that humans and some other animals have skeletons and muscles for support, protection and movement