



Oak Class Science Yearly Overview 2023-24

Forces and Magnets Y3/4

- **compare how things move on different surfaces**
- **notice that some forces need contact between two objects, but magnetic forces can act at a distance**
- **observe how magnets attract or repel each other and attract some materials and not others**
- **compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials**
- **describe magnets as having two poles**
- **predict whether two magnets will attract or repel each other, depending on which poles are facing.**

Rocks Y3/4

- **compare and group together different kinds of rocks on the basis of their appearance and simple physical properties**
- **describe in simple terms how fossils are formed when things that have lived are trapped within rock**
- **recognise that soils are made from rocks and organic matter.**

States of Matter Y3/4

- **compare and group materials together, according to whether they are solids, liquids or gases**
- **observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)**
- **identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.**

Light Y3/4

- recognise that they need light in order to see things and that dark is the absence of light
- notice that light is reflected from surfaces
- recognise that light from the sun can be dangerous and that there are ways to protect their eyes
- recognise that shadows are formed when the light from a light source is blocked by an opaque object
- find patterns in the way that the size of shadows change.

Sound Y3/4

- identify how sounds are made, associating some of them with something vibrating
- recognise that vibrations from sounds travel through a medium to the ear
- find patterns between the pitch of a sound and features of the object that produced it
- find patterns between the volume of a sound and the strength of the vibrations that produced it
- recognise that sounds get fainter as the distance from the sound source increases.

Plants Y3/4

- identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
- investigate the way in which water is transported within plants
- explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Animals including humans Y3/4

- construct and interpret a variety of food chains, identifying producers, predators and prey.
- describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird