

Curriculum. Science

Year 4

Michaelmas Term

Electricity

- construction of simple circuits
- making switches
- identifying electrical conductors and insulators
- safety around electricity

Forces

- identifying common forces in action around us
- measurement of forces
- investigations into friction, air resistance and water resistance

Magnetic Forces

- identifying magnetic materials
- poles of a magnet
- attracting and repelling forces
- investigating the strength of magnets

Lent Term

The Solar System

- the orbits of the planets around the sun
- the order of the planets
- basic knowledge of the differing sizes and composition of the planets
- why the earth has day and night
- why the earth has seasons
- the phases of the moon

Water

- the water cycle (Link with Geography)
- investigations into the evaporation and condensation of water
- measuring temperature of water over time
- knowledge of boiling and freezing points of water and its expansion when frozen
- recovering salt from water
- investigating ways to insulate ice cubes from melting

Summer Term

Light

- recognizing the difference between sources of light and reflected light
- investigations into shadows, sundials and reflections
- making periscopes

Rocks and soils

- knowledge of the formation of igneous, metamorphic and sedimentary rocks
- observational drawings of rocks
- testing the relative hardness of rocks
- knowledge of different types of soil (sandy and clay)
- investigations into the content, texture and water absorbency of soils