

Curriculum. Science

Year 5

Michaelmas Term

The body

- seven life processes and how these relate to our bodies
- identifying the appearance and approximate place of organs
- basic function of the heart, lungs and digestive system
- investigations into breathing and heart rate
- different types of teeth, their functions and an investigation into tooth decay
- a healthy diet
- the skeleton and the common names used
- the dangers of smoking and alcohol

States of matter

- understanding that there are three states of matter
- awareness that matter is made up of particles
- awareness that changes of state can be achieved through changes in the energy of the particles
- investigation into the changing temperature over time of hot and cold water

Lent Term

Dissolving

- investigation into saturated solutions
- investigation into changing the rate of dissolving

Separating Mixtures

- practical work on methods of sieving, decanting, filtration and evaporation
- investigations into separating mixtures requiring several stages of separation

Sound

- an understanding that sound is caused by vibrations and an awareness that sound travels in waves
- investigations into the changing of pitch and loudness
- investigations into vibrations through the three states of matter
- investigation into sound insulation

Summer Term

Plants

- the seven life processes and how these relate to plants
- plant structure and function
- knowledge of the parts of a flower and their function
- labelling of the parts of a flower from the school grounds
- a basic understanding of photosynthesis
- the life cycle plants

Habitats

- identification of invertebrates from different habitats around the school including pond dipping
- use of keys to aid identification
- the ways in which animals have adapted themselves to their habitat
- food chains (from producer through to tertiary consumer)