

Sticky Knowledge- Science

Class – Maples

Year 5



Animals including Humans (changes/growth)

Autumn 1

- What graph types are there and which is most appropriate for particular data?
- What are the 6 stages of human development?
- What changes occur during puberty? Can you explain why they occur?

Properties and changes of materials

Autumn 2

- Can I compare and group together everyday materials on the basis of their properties?
- What are reversible and irreversible changes?
- How can a substance be recovered from a solution?
- Can I use my knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating?

Forces

Spring 1

- Why do unsupported objects fall towards the Earth?
- What are the effects of air resistance, water resistance and friction, that act between moving surfaces?
- What mechanisms allow a smaller force to have a greater effect?

Living things and their habitats

Spring 2

- What are the differences in the life cycles of a mammal, an amphibian, an insect and a bird?
- What are the life processes of reproduction in some plants and animals?

Earth and Space

Summer 1

- Can I describe the Sun, Earth and Moon (as approximately spherical bodies)?
- How do the Earth and other planets move relative to the sun in the solar system?
- How does the moon move relative to the Earth?

Earth & Space

Summer 2

- Can I use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky?
- Can I explain how discoveries made by Scientists such as Galileo and Copernicus have changed people's understanding Earth and space?