

Sticky Knowledge- Science

Class – Maples

Year 5



Forces

Autumn 1

- Why do unsupported objects fall towards the Earth?
- What is a contact force and a non-contact force?
- What are the effects of air resistance, water resistance and friction, that act between moving surfaces?
- How do levers, pulleys and gears work?

Space / Sustainability : Global Warming

Autumn 2

- What are the different parts that make up the Solar System?
- How many planets are there in the Solar System and what order are they in? What do the planets and the moon orbit?
- What are the similarities and differences between the geocentric and heliocentric models?
- What causes day and night?
- What is global warming and what are its effects?

Properties of Materials

Spring 1

- Can I compare and group together everyday materials on the basis of their properties?
- What materials conduct electricity?
- What materials insulate heat?

Animals including humans

Spring 2

- Can you explain the human life cycle?
- What are the 6 different stages of human life and what changes do humans undergo?
- What is meant by gestation period and lifespan?

Life Cycles / ReproductionA

Summer 1

- What is the life cycle of a mammal?
- What is the life cycle of an amphibian?
- What is the life cycle of an insect?
- What is the life cycle of a bird?
- What is the process of sexual reproduction in animals?
- What are the reproductive parts in plants?
- What is asexual reproduction? How can plants be cloned?

Reversible and Irreversible

Changes / Sustainability /

ReproductionB

Summer 2

- What are reversible and irreversible changes?
- What happens when a substance is dissolved?
- How can a substance be recovered from a solution?
- How can filtering and sieving be used to separate mixtures?
- What is plastic pollution and what impact does it have on the planet?
- What did I learn about cloning plants?