

SKILLS TAUGHT ACROSS SCIENCE

Forces, Digestive System, Acid and Alkalis, Metals and their reactions, Magnetism, Muscular and Skeletal systems, Energetics, Ecosystems and Waves.

Rotation

Topics are taught on a rotation per term in science. Each class will study each of these topics described but may be in a different order.



Magnetism: Magnets and magnetic fields, Earth's magnetic field, electromagnets, motors.

Muscular and Skeletal Systems: Essential for movement in living organisms.

Metals & Their Reactions: Reactivity series, displacement reactions, reactions of metals.

Revision:

- Cells and Organisation
- Particles
- Pure & Impure Substances
- Reproductive Systems
- Ecosystems
- Acids and Alkalis



Assessments

Assessments will happen at the end of each project to ensure key knowledge is remembered. To include knowledge recall, skills and extended writing.



1

Autumn Term



Forces: Forces, moments, elasticity, difference between weight and mass, pressure, speed, distance-time graphs

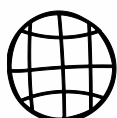
Gas Exchange and Digestive System:

Respiratory system, gas exchange, human diet, digestive system, link between photosynthesis and digestion

Acid and Alkalis: Two groups of chemicals with distinct properties.

2

Spring Term



3

Summer Term

Energetics: Energy changes in chemical reactions, exothermic and endothermic reactions, catalysts.

Ecosystems: Communities of living organisms interacting with each other and their non-living environment.

Waves: Waves in water, sound waves, light as waves, how objects are seen, colours of light.

Project: Working Scientifically

Skills Development, Key knowledge:

- Experimental planning
- Data collection and analysis
- Scientific evaluation
- Calculations