SKILLS TAUGHT ACROSS SCIENCE Electricity, Respiration, Chemical Reactions, Forces, Digestive System, Magnetism, Energetics 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

Gas Exchange and Digestive System: Respiratory system, gas exchange, human diet, digestive system, link between photosynthesis and digestion

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

- Cells and Organisation

Pure & Impure Substances **Reproductive Systems**

Magnetism: Magnets and magnetic

fields, Earth's magnetic field, electromagnets, motors

Revision:

Particles

- Ecosystems - Acids and Alkalis

different order.



Electricity: static electricity, designing and building circuits, current, potential difference and resistance, intro to series and parallel circuits, insulators and conductors

Respiration: Aerobic and anaerobic respiration, gas exchange, effects of smoking, asthma and drugs Chemical Reactions: Difference in chemical and physical reactions, compounds definition, formula and equations, conservation of mass, combustion, oxidation and thermal decomposition

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



Summer Term

Spring Term

Energetics: Energy changes in chemical reactions, exothermic and endothermic reactions, catalysts Waves: Waves in water, sound waves, light as waves, how objects are seen, colours of light **Project:** Working Scientifically

Assessments

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

Skills Development, Key knowledge:

- Scientific evaluation



- Experimental planning
- Data collection and analysis
- Calculations