

**Curriculum Area: Science**

**Subject Coordinator(s): Alison Thorpe**

<b>Year group</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>7</b>	Induction, safety and equipment. Acid and alkalis. Simple chemical reactions.	Particles. Solutions and separating techniques.	Energy resources. Electricity.	Forces. The solar system.	Cells. Reproduction.	Environment and adaptations. Classification.
<b>8</b>	Revisit safety, equipment and basic skills. Atoms and elements. Compounds and mixtures.	Identifying rocks and rock cycle. Heating and cooling.	Magnets and electromagnets. Light.	Sound and hearing. Food and digestion.	Respiration. Microbes and disease.	Ecology. Horticulture.
<b>9</b>	Reactions of metals and metal compounds. Patterns of reactivity.	Environmental chemistry Using chemistry.	Energy and electricity. Gravity and space.	Pressure and moments. Anatomy and physiology.	Nervous system. Hormones.	Plants and photosynthesis. Plants for food.
<b>10</b>	ELC – the human body  GCSE –Cell biology, organisation.	ELC- the human body  GCSE-infection and response, bioenergetics.	EIC- Elements, mixtures and compounds. GCSE-Atomic structure and periodic table, bonding, structure and the properties of matter	EIC- Elements, mixtures and compounds. GCSE- Quantitative chemistry, chemical changes, energy changes.	ELC – Energy, forces and structure of matter.	ELC – Energy, forces and structure of matter.
<b>11</b>	ELC – Environment, evolution and inheritance  GCSE – Homeostasis and response, inheritance, variation and evolution, ecology.	ELC – chemistry in our world  GCSE – Rate and extent of chemical change, organic chemistry, chemical analysis.	ELC – chemistry in our world  GCSE – chemistry of the atmosphere, using resources.	ELC – Electricity and waves.  GCSE – Forces, waves, magnetism and electromagnetism.	ELC - Series of science based activities using skills learnt. GCSE – revision and exam preparation. Past paper practice.	