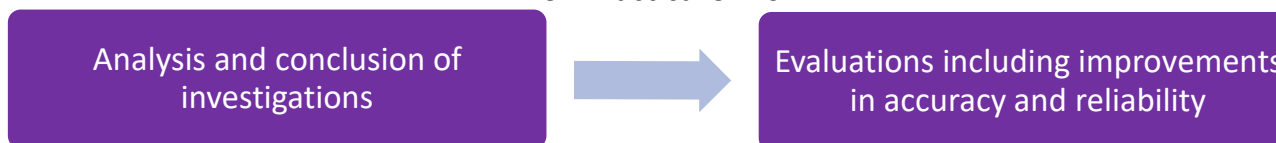


# Science Curriculum

Science Pillars	KS3 Prior Knowledge:
Forces	✓Contact forces ✓Gravity and space ✓Motion ✓Newtons laws ✓Forces in action
Electricity	✓Circuits ✓Magnetism
Energy	✓Energy in Fuels ✓Energy resources ✓Energy transfers
Waves	✓Light and sound ✓Wave Basics
Matter	✓Particle model and elements ✓Gas pressure ✓Periodic ✓Purity and separation techniques ✓Density ✓Specific Heat capacity
Reactions	✓Reactions ✓Acids and Alkalis ✓Metals and non-Metals ✓Displacement Reactions Bonding
Earth	✓Global Warming ✓Earth Structure
Organisms	✓Cells and diffusion ✓Organ systems and breathing ✓Food tests ✓Digestion ✓Cell Structures ✓Human Reproduction
Ecosystems	✓Plant reproduction Respiration ✓Photosynthesis
Genes	✓Variation ✓Inheritance

	<i>Autumn 1</i>	<i>Autumn 2</i>	<i>Spring 1</i>	<i>Spring 2</i>	<i>Summer 1</i>	<i>Summer 2</i>
10	Coordination and control – Nervous system	Coordination and control – Endocrine system	Maintaining internal environments	Ecosystems	Inheritance	Natural selection
	Energetics	Electrolysis	Further chemical reactions	Predicting chemical reactions	Controlling chemical reactions	Equilibria
	Static and charge	Further Circuits	Electromagnetic spectrum	Radioactivity	Work done	Power
11	Monitoring and maintaining environment	Monitoring and maintain health	Mastery of Biology		External exams	
	Improving processes and products	Interpreting and interacting with earth system	Mastery of Chemistry		External exams	
	Physics on the move	Powering the earth	Mastery of Physics		External exams	

## KS4 Practical Skills



# Science Curriculum

Science Pillars	KS2 Prior Knowledge:
Forces	✓Space and orbits ✓Basic forces ✓Magnets
Electricity	✓Construction of circuits ✓Bulb brightness associated with voltage
Energy	✓Sound as a type of energy
Waves	✓Basics of light
Matter	✓Material properties ✓Dissolving
Reactions	✓Some reactions are reversible some are irreversible
Earth	✓Rocks
Organisms	✓Life cycles of animals ✓Growth development of humans ✓Basic parts of the human body
Ecosystems	✓Classification
Genes	✓Adaptation ✓Inheritance of characteristics

	<i>Autumn 1</i>	<i>Autumn 2</i>	<i>Spring 1</i>	<i>Spring 2</i>	<i>Summer 1</i>	<i>Summer 2</i>
7	Cells and diffusion	Organ systems and breathing	Particle model and elements	Gas pressure	Contact forces	Gravity and space
	Human Reproduction	Plant reproduction	Reactions	Acids and Alkalis	Light and sound	Waves
8	Food tests	Digestion	Respiration	Photosynthesis	Variation	Inheritance
	Periodic table	Metals and non-Metals	Displacement Reactions	Separating mixtures	Global Warming	Earth
	Circuits	Magnetism	Energy in Fuels	Energy resources	Energy transfers	Motion
9	Cell Structures	Further respiration	Further Photosynthesis	Supplying the cell	Challenges of size	Investigation Projects
	Particle Model	Atomic structure	Bonding	Purity and separation techniques	Properties of materials	Investigation Projects
	Density	Specific Heat capacity	Further Motion	Newtons laws	Forces in action	Investigation Projects

## KS3 Practical Skills

Name and use correct Science equipment

Understanding and justification of science equipment

Investigation methods



# Science

