



Lower School Science

1 - INTENT

In (lower School) students will follow a two-year programme – This year they are following Year 1

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	Digestion	States of matter	Electricity and magnetism	Cells, tissues and organs	Acids and Alkalis	Energy
Assessment	Units are continually assessed via Pupils individual progress documents, assessment of practical skills and direct questioning to establish levels of understanding.					
2	Simple chemical experiments	Circulatory system	Light and Sound	Chemical change and the periodic table	The Earth and Solar System	The Environment
Assessment	Units are continually assessed via Pupils individual progress documents, assessment of practical skills and direct questioning to establish levels of understanding.					

2 - IMPLEMENTATION - can be seen in subject Mid-Term plans

3 - IMPACT

	Autumn		Spring		Summer	
Year 1	Pupils demonstrate understanding of the organs involved in digestion, food groups, food tests and how to plan healthy menus.	Pupils demonstrate understanding of basic chemical reactions, especially signs of reactions, methods of separation and the concept of reactivity.	Pupils demonstrate understanding of static electricity, simple series and parallel circuits, properties of magnets.	Pupils demonstrate understanding that cells are the building blocks of life and the location and function of the major organs. To be able to prepare simple slides and use a microscope.	Pupils demonstrate understanding that chemicals in the home may be acids or alkalis, how to safely handle weak acids, how acids react with metals.	Pupils demonstrate understanding of the forms of energy, how heat can be transferred, how electricity is produced and used in our homes.
Year 2	Pupils demonstrate understanding of how to undertake simple chemical experiments. To be able to accurately use measuring equipment including thermometers, beakers, measuring cylinders etc.	Pupils demonstrate understanding of the role of the heart, how oxygen enters the body, how our lifestyle choices affect the health of our heart, how exercise affects our pulse rate.	Pupils demonstrate understanding of how sound and light move, how sounds change as pitch changes, how humans detect light and sound.	Pupils demonstrate they can safely heat liquids and solids, carry out experiments on solubility, how some reactions releases gases.	Pupils demonstrate understanding of the place of the Earth in the Solar system, the other planets in the solar system, the structure of the Earth, how climate change is affecting the earth.	Pupils demonstrate understanding of food chains and webs, how organisms are adapted to their environment, how to graphically represent environmental data.