



Curriculum Intent

Spa's Science curriculum aims to equip pupils so that they will:



develop scientific knowledge and conceptual understanding through the specific disciplines of **biology, chemistry** and **physics**



develop understanding of the **nature**, **processes** and **methods** of science through different types of **science enquiries** that help them to answer scientific questions about the world around them



are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future

National Curriculum Coverage and Sequencing

The National Curriculum breaks down which aspects of science are to be taught in each year group.

Our curriculum sequencing matches these and relevant objectives.

enquiry	Observation	measure	classify	predict	conclude

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Light 1. Shadows 2. Reflection 3. Dangers of the sun 4. Shadow patterns		 Forces and magnets Magnets and poles Attract or repel Friction Comparative test 	 Rocks 1. What are rocks (including grouping)? 2. Soil 3. How is soil formed? 4. Fossils 	 Animals, including humans 1. Skeletons and muscles 2. Grouping animals 3. Diets 4. Nutrition 5. Scientific diagram 	 Plants 1. What do plants need to live? 2. Parts of a plant 3. Different plants, different needs 4. How is water transported? 5. Life cycle of plants
Year 4	 Sound Vibrations Pitch and sound Distance Volume and vibrations 		 Electricity 1. Conductors and insulators 2. Circuits 3. Will the circuit work? 4. Comparative test 	 States of matter Heating and cooling Solids, liquids and gases Grouping materials (state) Evaporation and condensation 	 Animals, including humans 1. Digestive system 2. Teeth 3. Food chains 4. What damages teeth? 5. Scientific diagram 	 Living things and their habitats Classification Grouping animals and plants Habitat changes Dangers in the environment
Year 5	 Earth and space Inform: spherical bodies & the solar system Orbits and rotation: Earth Orbits and rotation: The Sun Theories of the solar system 		 Forces Gravity Resistance-Air Resistance - Water Levers, pulleys and gears Comparative test 	Properties and changes of materials 1. Reversible and irreversible 2. Separating mixtures 3. Uses of materials 4. Grouping materials (properties)	 Animals, including humans 1. Changes to humans 2. Changes to animals and plants 3. Gestation 4. Scientific diagram 	 Living things and their habitats Classification of living things Similarities and differences Classification characteristics Carl Linneaus

Year 6	Light	Electricity	Evolution and	Animals, including	Living things and
	1. How light travels	1. Circuit symbols	inheritance	humans	their habitats
	2. Reflection	2. Circuit	1. Changes over time	1. Travelling nutrients	1. Reproduction in
	3. How do we see?	components	2. Plants and their	2. Human circulatory	plants and animals
	4. Shadows and	3. Variations in a	environment	system	2. Life cycles
	straight lines	circuit	3. Anning, Darwin &	3. Diet, exercise, drugs	3. Comparing life cycles
		4. Investigation	Wallace	and lifestyle	4. Comparing how
			4. Comparing	4. Scientific diagram	animals reproduce
			skeletons and		and grow
			evolution		5. Jane Goodall
			5. Offspring and		
			variation		

