Westfields JUNIOR SCHOOL

Science Long Term Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	**Bones, Muscles and Diets** Investigating skeletons and muscles and nutrition		**Rocks and soils** Comparing, grouping and describing formation of rocks, fossils and soils	**Forces and magnets** Identifying, investigating and observing forces and magnetism	**Light** Investigating and defining light, reflection, the dangers of the sun, shadow formation and size	**Plants** Identifying and describing functions of parts of plants, exploring requirements for life and life cycle
Year 4	**Living things and their habitats** Grouping and classifying living things and identifying impact of environmental change	**Animals including humans** Describing the digestive system, investigating teeth in humans and constructing and interpreting food chains	**States of matter** Comparing and grouping materials, observing changes in solids, liquids and gases and investigating the water cycle	**Sound** Identifying how sounds are made, how we hear and investigating patterns	**Electricity** Identifying appliances, investigating a simple series electrical circuit and recognising common conductors and insulators	
Year 5	**Earth and Space** Describing the movement of the Earth, other planets and the moon, investigating the relative size of these and explaining why we have day and night and seasons	**Forces** Explaining, defining and observing gravity, identifying the effects of air resistance, water resistance and friction, and investigating levers, pulleys and gears	**Properties of materials** Comparing and grouping materials, investigating properties	**Changes of materials** Investigating mixing, dissolving and separating materials, identifying reversible and irreversible changes	**Living things and their habitats** **Animals including humans** **Life Cycles** Describing the differences in the animal life cycles, describing reproduction in plants and animals and identifying the changes in humans	
Year 6	**Light** Recognising how light travels, how the eye works and investigating shadows and their shapes	**Evolution and inheritance** Recognising how living things have changed over time, investigating fossils, variation in offspring and animal and plant adaptation	**Electricity** Using circuit symbols and investigating the effect on components within a circuit with the number and voltage of cells used, comparing and giving reasons for variations in how the components function	**Animals including humans** Investigating the human circulatory system and how nutrients and water are transported around the body, recognising the impact of diet, exercise, drugs and lifestyle on the way their bodies function	**Living things and their habitats** Describing how living things are classified into broad groups focusing on specific characteristics including micro-organisms, plants and animals	