



Science Long Term Plan

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	Biology: Plants Identifying and naming common plants and describing basic structures	Biology: Plants Plants grow from seeds and require water, light and a suitable temperature	Chemistry: Rocks Comparison of types of rocks and how fossils are formed.	Biology: Classifying Organisms Introduction to classifying animals and their environment	Chemistry Separating mixtures Identifying and separating mixtures; difference between reversible and non-reversible changes	Physics: Electricity Investigating variations in series and parallel circuits, and how electricity is generated
	Biology/Physics: Seasonal changes Observing changes across four seasons and describing weather	Biology: Needs of Animals Animals need water, food and air need survive and have offspring	Physics: Light The relationship between light and how we see. The formation of shadows.	Biology: Food and digestion The human digestive system and simple food chains	Biology, Chemistry, Physics: Energy Introducing the concept of energy stores and energy transfers, and relating this to prior knowledge	Biology: Evolution & inheritance Fossils; introduction to the idea that adaptation may lead to evolution
Spring	Chemistry: Everyday materials Distinguishing objects from the materials it's made from, and describing simple properties	Chemistry: Uses of everyday materials comparison: object's material with its use; impact of bending, twisting etc. on solid objects	Biology: Living organisms The role of muscles and skeletons. The importance of nutrients.	Chemistry: States of matter Solids, liquids and gases and the role of temperature in changing states	Biology: Life cycle Life cycle of mammal, amphibian, insect and bird Reproduction processes	Physics: Light How light travels and is reflected, and how this allows us to see
		Biology: Living things and their habitats Basic introduction to habitats and micro-habitats, and simple food chains	Biology: Plants The key features of flowering plants and what they need to survive.	Physics: Sounds Relationship between strength of vibrations and volume of sound	Biology: Human development Human development to old age	Biology: Further classification Further classification of living organisms based on characteristics
Summer	Biology: Animals Identify/ name: fish, amphibians, reptiles, birds and mammals; recognising carnivores, herbivores and omnivores	Chemistry: Solids, liquids and gases Understanding how the same substances can exist as solids, liquids and gases	Physics: Forces and motion Magnets have poles which attract or repel Physics	Physics: Electricity Simple series circuits	Physics: Forces Gravity, air and water resistance and friction. Introduction to pulleys	Biology: Functions of the human body Human circulatory system; transport of nutrients within the body
	Biology: Humans: Body parts and senses		Friction & magnetism: Contact and non-contact forces, including friction and magnetism	Chemistry: Properties of materials Considering physical and chemical properties	Physics: Earth and space Movement of planets and the moon and relationships to day and night	Chemistry: Chemical reactions Identifying physical and chemical changes