

Science Long Term Plan

	Year 3	Year 4	Year 5	Year 6
Autumn 1	CHEMISTRY Rocks Comparisons 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; reversible and non-reversible changes	PHYSICS Electricity Investigating variations in series and parallel circuits, and how electricity is generated
	PHYSICS Light Relationship between light and how we see; the formation of shadows	BIOLOGY Food & digestion The human digestive system and food relationships in ecosystems	BIO / CHEM / PHYSICS Energy Introducing the concept of energy stores and energy transfers; relate this to prior knowledge	BIOLOGY Evolution Fossils; introduction to the idea that adaptation may lead to evolution
Spring 1	BIOLOGY Organisms The role of muscles and skeletons; the importance of nutrients	CHEMISTRY Particle model and states of matter States of matter in relation to particle arrangement	BIOLOGY Life cycles Life cycles of a mammal, amphibian, insect, bird, and some reproduction processes	PHYSICS Light How light travels and is reflected, and how this allows us to see
	BIOLOGY Plants 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 organisms based on characteristics
Summer 1	PHYSICS Forces & motion Introducing pushes and pulls; opposing forces, and balanced forces	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
	PHYSICS Magnetism Contact and non-contact forces, including friction and magnetism	CHEMISTRY Properties of materials Considering physical and chemical properties	PHYSICS Earth and space Movements of planets and the Moon, and relationship to day and night	CHEMISTRY Physical and chemical changes Identifying physical and chemical changes