

Curriculum Overview: Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
N	It's Getting Cold Outside / Bears Weather where we live, habitats where bears live	Polar Express / Special Days Melting and freezing; natural and artificial materials	On the Move / Toys Exploring pushes, pulls and magnets	On the Farm / Food Glorious Food Life cycles of farm animals and plants	Once upon a Time Properties of materials and exploring mixtures	All creatures great and small Life cycles of animals in tropical rainforests, sea and grasslands
R				Spring in our Step Wildlife and weather in spring and winter; habitats around our school		Science Detectives Properties of materials and habitats around the world
1	BIOLOGY Plants Identifying and naming common plants and describing basic structures	BIOLOGY / PHYSICS Seasonal changes Observing changes across four seasons and describing associated weather	CHEMISTRY Everyday materials Distinguishing objects from their material, and describing simple properties	Consolidation and review	BIOLOGY Animals Naming reptiles, fish, amphibians, birds and mammals; carnivores, herbivores, omnivores	BIOLOGY Humans Human body parts and senses
2	BIOLOGY Plant growth Plants grow from seeds, and require water, light and a suitable temperature	BIOLOGY Needs of animals Animals need water, food and air to survive and to have offspring	CHEMISTRY Uses of materials Comparisons of an object's material with its use; impact of bending, twisting on solid objects	BIOLOGY Living things & habitats Introduction to habitats, micro-habitats, and simple food chains	CHEMISTRY Solids, liquids and gases How the same substances can exist as solids, liquids and gases	Consolidation and review
3	CHEMISTRY Rocks Comparisons of types of rocks and how fossils are formed	PHYSICS Light Relationship between light and how we see; the formation of shadows	BIOLOGY Organisms The role of muscles and skeletons; the importance of nutrients	BIOLOGY Plants Features of flowering plants and what they need to survive	PHYSICS Forces & motion Introducing pushes and pulls; opposing forces, and balanced forces	PHYSICS Magnetism Contact and non-contact forces, including friction and magnetism
4	BIOLOGY Classifying organisms Introduction to classifying animals and their environment	BIOLOGY Food & digestion The human digestive system and food relationships in ecosystems	CHEMISTRY Particle model and states of matter States of matter in relation to particle arrangement	PHYSICS Sounds Relationship between strength of vibrations and volume of sound	PHYSICS Electricity Simple series circuits	CHEMISTRY Properties of materials Considering physical and chemical properties
5	CHEMISTRY Separating mixtures Identifying and separating mixtures; reversible and non-reversible changes	BIO / CHEM / PHYSICS Energy Introducing the concept of energy stores and energy transfers; relate this to prior knowledge	BIOLOGY Life cycles Life cycles of a mammal, amphibian, insect, bird, and some reproduction processes	BIOLOGY Human development Human development to old age	PHYSICS Forces Gravity, air and water resistance and friction; introduction to pulleys	PHYSICS Earth and space Movements of planets and the Moon, and relationship to day and night
6	PHYSICS Electricity Investigating variations in series and parallel circuits, and how electricity is generated	BIOLOGY Evolution Fossils; introduction to the idea that adaptation may lead to evolution	PHYSICS Light How light travels and is reflected, and how this allows us to see	BIOLOGY Further classification Further classification of organisms based on characteristics	BIOLOGY Functions of the human body Human circulatory system; transport of nutrients within the body	CHEMISTRY Physical and chemical changes Identifying physical and chemical changes