

# United Curriculum: Science



	N3- 4	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	<b>It's getting cold outside / Bears</b> Weather where we live, habitats where bears live		<b>BIOLOGY</b> <b>Plants</b> Identifying and naming common plants and describing basic structures	<b>BIOLOGY</b> <b>Plant growth</b> Plants grow from seeds, and require water, light and a suitable temperature	<b>CHEMISTRY</b> <b>Rocks</b> Comparisons of types of rocks and how fossils are formed	<b>BIOLOGY</b> <b>Classifying organisms</b> Introduction to classifying animals and their environment	<b>CHEMISTRY</b> <b>Separating mixtures</b> Identifying and separating mixtures; reversible and non-reversible changes	<b>PHYSICS</b> <b>Electricity</b> Investigating variations in series and parallel circuits, and how electricity is generated
Autumn 2	<b>Polar express / Special days</b> Melting and freezing; natural and artificial materials		<b>BIOLOGY / PHYSICS</b> <b>Seasonal changes</b> Observing changes across four seasons and describing associated weather	<b>BIOLOGY</b> <b>Needs of animals</b> Animals need water, food and air to survive and to have offspring	<b>PHYSICS</b> <b>Light</b> Relationship between light and how we see; the formation of shadows	<b>BIOLOGY</b> <b>Food &amp; digestion</b> The human digestive system and simple food chains	<b>BIO / CHEM / PHYSICS</b> <b>Energy</b> Introducing the concept of energy stores and energy transfers; relate this to prior knowledge	<b>BIOLOGY</b> <b>Evolution</b> Fossils; introduction to the idea that adaptation may lead to evolution
Spring 1	<b>On the Move / Toys</b> Exploring pushes, pulls and magnets		<b>CHEMISTRY</b> <b>Everyday materials</b> Distinguishing objects from their material, and describing simple properties	<b>CHEMISTRY</b> <b>Uses of materials</b> Comparisons of an object's material with its use; impact of bending, twisting on solid objects	<b>BIOLOGY</b> <b>Organisms</b> The role of muscles and skeletons; the importance of nutrients	<b>CHEMISTRY</b> <b>Particle model and states of matter</b> States of matter in relation to particle arrangement	<b>BIOLOGY</b> <b>Life cycles</b> Life cycles of a mammal, amphibian, insect, bird, and some reproduction processes	<b>PHYSICS</b> <b>Light</b> How light travels and is reflected, and how this allows us to see
Spring 2	<b>On the Farm / Food Glorious Food</b> Life cycles of farm animals and plants	<b>Spring in our step</b> Wildlife and weather in spring and winter; habitats around our school	<b>Consolidation and review</b>	<b>BIOLOGY</b> <b>Living things &amp; habitats</b> Introduction to habitats, micro-habitats, and simple food chains	<b>BIOLOGY</b> <b>Plants</b> Features of flowering plants and what they need to survive	<b>PHYSICS</b> <b>Sounds</b> Relationship between strength of vibrations and volume of sound	<b>BIOLOGY</b> <b>Human development</b> Human development to old age	<b>BIOLOGY</b> <b>Further classification</b> Further classification of organisms based on characteristics
Summer 1	<b>Once upon a time 1 / 2</b> Properties of materials and exploring mixtures		<b>BIOLOGY</b> <b>Animals</b> Naming reptiles, fish, amphibians, birds and mammals; carnivores, herbivores, omnivores	<b>CHEMISTRY</b> <b>Solids, liquids and gases</b> How the same substances can exist as solids, liquids and gases	<b>PHYSICS</b> <b>Forces &amp; motion</b> Introducing pushes and pulls; opposing forces, and balanced forces	<b>PHYSICS</b> <b>Electricity</b> Simple series circuits	<b>PHYSICS</b> <b>Forces</b> Gravity, air and water resistance and friction; introduction to pulleys	<b>BIOLOGY</b> <b>Functions of the human body</b> Human circulatory system; transport of nutrients within the body
Summer 2	<b>All creatures great and small 1 / 2</b> Life cycles of animals in trop. rainforests, sea, and grasslands	<b>Science detectives</b> Properties of materials and habitats around the world	<b>BIOLOGY</b> <b>Humans</b> Human body parts and senses	<b>Consolidation and review</b>	<b>PHYSICS</b> <b>Magnetism</b> Contact and non-contact forces, including friction and magnetism	<b>CHEMISTRY</b> <b>Properties of materials</b> Considering physical and chemical properties	<b>PHYSICS</b> <b>Earth and space</b> Movements of planets and the Moon, and relationship to day and night	<b>CHEMISTRY</b> <b>Physical and chemical changes</b> Identifying physical and chemical changes

