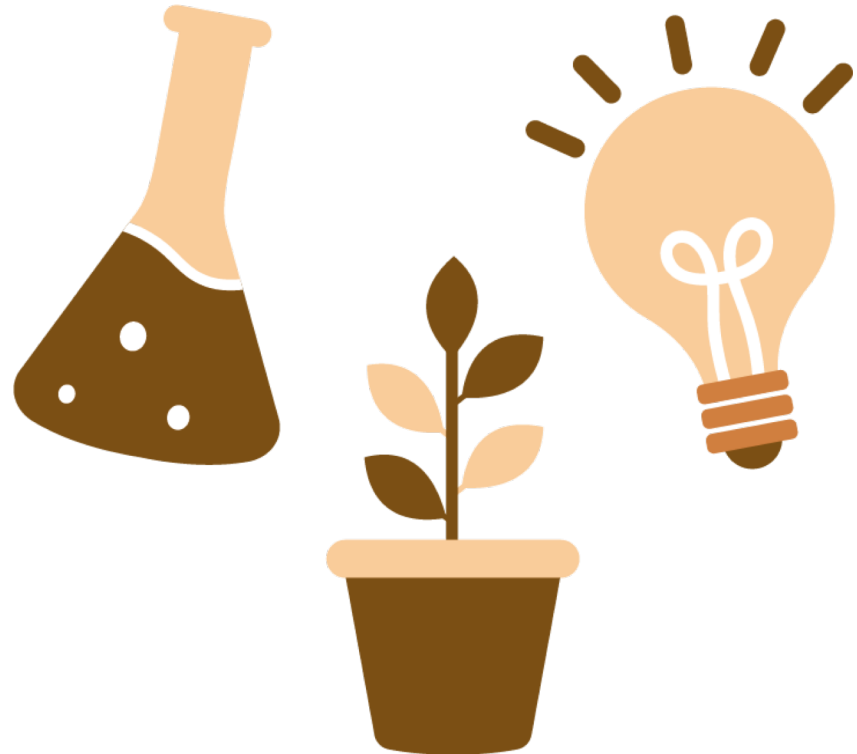


United Curriculum

Primary Science

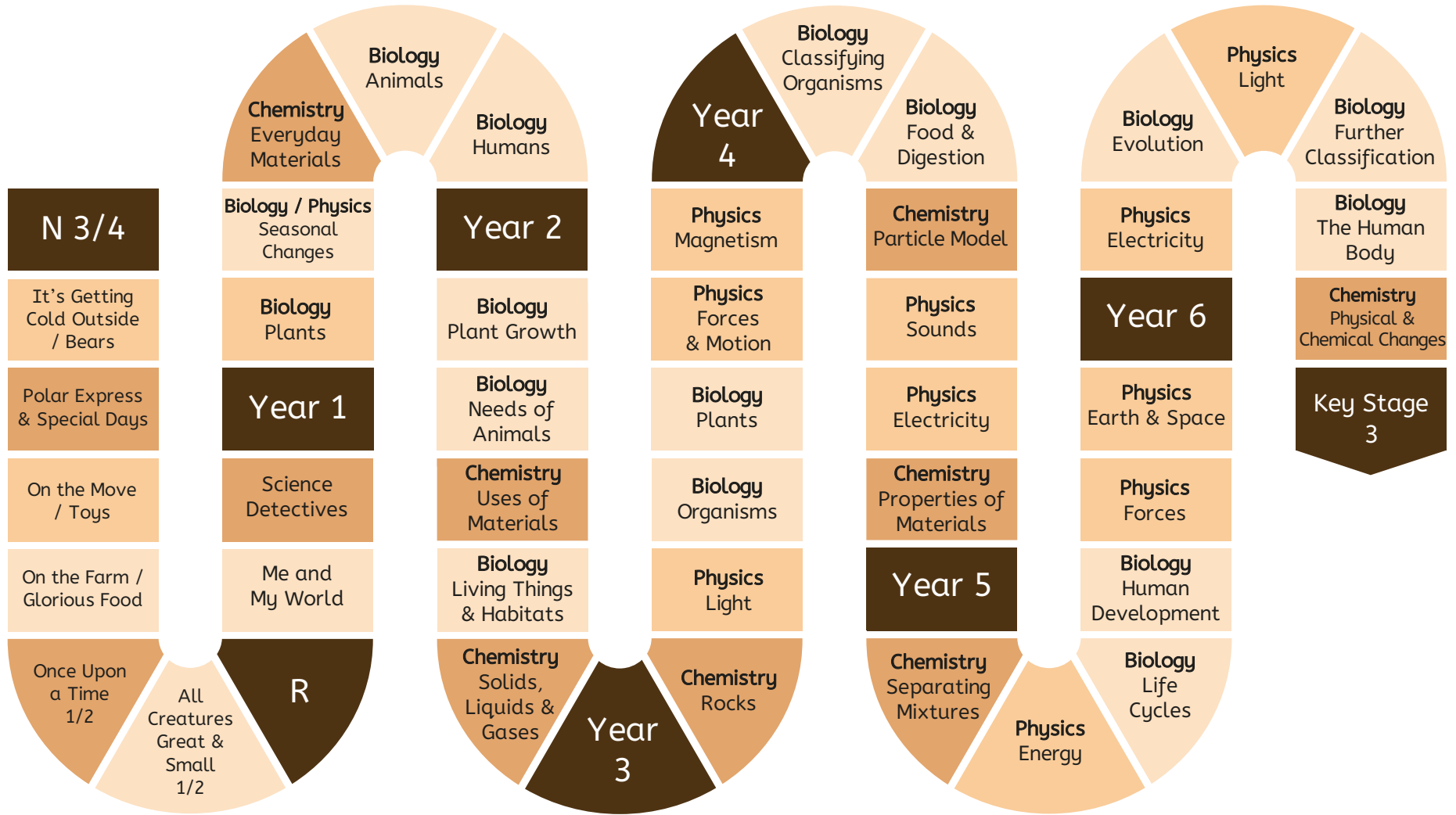
For Teachers



United Curriculum
Primary

Part of United Learning

United Curriculum: Science



United Curriculum: Science



| | N3-4 | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|----------|--|--|--|--|--|--|---|--|
| Autumn 1 | It's getting cold outside / Bears Weather where we live, habitats where bears live | | BIOLOGY Plants Identifying and naming common plants and describing basic structures | BIOLOGY Plant growth Plants grow from seeds, and require water, light and a suitable temperature | 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 |
| Autumn 2 | Polar express / Special days Melting and freezing; natural and artificial materials | | BIOLOGY / PHYSICS Seasonal changes Observing changes across four seasons and describing associated weather | BIOLOGY Needs of animals Animals need water, food and air to survive and to have offspring | 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 | On the Move / Toys Exploring pushes, pulls and magnets | | CHEMISTRY Everyday materials Distinguishing objects from their material, and describing simple properties | CHEMISTRY Uses of materials Comparisons of an object's material with its use; impact of bending, twisting on solid objects | 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 |
| Spring 2 | On the Farm / Food Glorious Food Life cycles of farm animals and plants | Spring in our step Wildlife and weather in spring and winter; habitats around our school | Consolidation and review | BIOLOGY Living things & habitats Introduction to habitats, micro-habitats, and simple food chains | 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 | Once upon a time 1 / 2 Properties of materials and exploring mixtures | | BIOLOGY Animals Naming reptiles, fish, amphibians, birds and mammals; carnivores, herbivores, omnivores | CHEMISTRY Solids, liquids and gases How the same substances can exist as solids, liquids and gases | 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 |
| Summer 2 | All creatures great and small 1 / 2 Life cycles of animals in trop. rainforests, sea, and grasslands | Science detectives Properties of materials and habitats around the world | BIOLOGY Humans Human body parts and senses | Consolidation and review | 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 |

