

Science Curriculum 2022-2023

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Plants and seasonal changes introduction Every day materials – identifying and classifying materials.	Animals including humans -Our senses -Identifying and naming common animals, including fish, amphibians, reptiles, birds and animals.	Animals including humans -Similarities and differences between common animals.	Seasonal changes Everyday materials -Objects, materials and properties.	Seasonal changes Animals including humans -Carnivores, herbivores, omnivores.	Plants -Wild and garden plants. Evergreen and deciduous.
Year 2	Living things and their habitats -life processes -Food chains -Difference between things that are dead, alive and never been alive.	Use of Everyday Materials -Objects, materials, properties and purposes. -Suitable and unsuitable materials for different purposes based on properties.	Plants -Seeds and germination	Animals including humans -Reproduction live young compared to eggs. -Needs for survival -Human life cycle stages	Animals including humans -Healthy foods and diets -Exercise and hygiene -Sleep	Use of Everyday Materials -Reversible and irreversible changes to materials.
Year 3	Animals including humans -Muscles and bones -Vertebrates and invertebrates -Food groups “Our changing world”: Observing flowering plants in different seasons	Forces and Magnets -Push and pull forces -Friction -Magnets and magnetic fields	Light -Light and dark -Reflection -Transparent/ opaque/ translucent -Shadows “Our changing world”: Observing flowering plants in different seasons	Rocks -Sedimentary rock and fossil formation.	Plants -Roots and water transport system -How plants make their own food “Our changing world”: Observing flowering plants in different seasons	Plants -Pollination -Fertilisation -Life cycle of a plant -Seed dispersal -Germination
Year 4	Animals including humans -Digestion and the digestive system -Teeth	Sound -How sounds start and travel -Volume and pitch -Sound waves and frequency	“Our changing world”: -Observational unit looking at classifying trees. Living things and their habitats -Classification of mammals, reptiles, fish, amphibians and birds. - Food chains	Animals including humans -Human and natural factors that can change a habitat -Endangered and extinct animals	States of matter -Particle arrangement in solids, liquids and gases -Properties of solid, liquids and gases -Water cycle	Electricity -Appliances and uses of electricity -Sources of electricity - Electrical circuits
Year 5	Forces -Newtons as a measure of force -Gravity -Weight -Friction: water resistance and air resistance	Properties and changes of materials -Dissolving -Reversible and irreversible reactions -Investigating methods to separate mixtures	Our changing world observational unit- features of plants that have reproduced Living things and their habitats -Life cycles of mammals, reptiles, fish, amphibians and birds. -Fertilisation and reproduction animals	Animals including humans -Human life cycle -Plant reproduction -Fertilisation and gestation in humans	Earth and Space - Day and night - Solar system and orbits - Moon phases - Seasons	Properties and changes of materials - Conductivity - Magnetism - Solubility - Thermal conductivity - Viscosity
Year 6	Evolution and inheritance -Inheritance -Variation (genetic and environmental) - Selective breeding - Fossil record -Speciation	Light -Shadows -Ray diagrams -Law of reflection -Refraction -Colour spectrum	Animals including humans -Circulatory system	Electricity -Current -Voltage -Resistance -Resistors -Series circuits	Living things and their habitats -Classification using Linnaeus system -Taxonomy -Microorganisms (both useful and harmful)	Animals including humans -Body health -Benefits of exercise -Balanced diet -Impact of stress -Drugs, alcohol and smoking