

Science Curriculum Map - Key Stage 1 and 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y1 Science	Animals, including humans - All about me: Children will learn how to identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.		Animals, including humans - All about animals: Children will learn how to identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals, how to identify and name carnivores, herbivores and omnivores and describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).	Plants: Children will learn how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees and how to identify and describe the basic structure of a variety of common flowering plants, including trees.	Exploring everyday materials 1: Children will learn how to distinguish between an object and the material from which it is made, how to identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock. Describe the simple physical properties of a variety of everyday materials. Learn how to compare and group together a variety of everyday materials on the basis of their simple physical properties.	Exploring everyday materials 2: learn how to distinguish between an object and the material from which it is made, how to identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock. Describe the simple physical properties of a variety of everyday materials and learn how to compare and group together a variety of everyday materials on the basis of their simple physical properties.
	Seasonal Change: Observe and describe weather associated with the seasons and how day length varies.					
Y2 Science	Use of everyday materials: Identify and compare the suitability of everyday materials. Find out how some materials can be changed by squashing, bending twisting and stretching.	Living things and their habitats: Identify and compare the differences between things that are living, dead and things that have never been alive.	Animals, including humans 1: Growth, exercise and survival - Find out and describe the basic needs of animals, including humans for survival (water, food and air). Living things and their habitats around the world: Identify that most living things live in habitats to which they are suited. Discover the Arctic and Antarctic habitats. Identify how these environments are constantly changing due to the impact human's have on our planet.	Animals including humans 1- Growth Describe the importance for humans of exercise, eating the right food and the right amounts of food. Knowing the importance of a healthy balanced diet. Knowing the importance of hygiene.	Plants Observe and describe how seeds and bulbs grow into mature plants. Know the life cycle of a plant (germination, growth and survival) Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Animals, including humans 2: Life cycles Notice that animals including humans have offspring which grow into adults.	Living things and their habitats Identify and name a variety of plants and animals in their habitats, including micro-habitats. Describe how different habitats provide for the basic needs of different kinds of animals, plants and how they depend on each other. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different sources of food.
Y3 Science	Rocks and Soils: Explore the formation and of igneous, sedimentary and metamorphic rocks. Explore how water contributes to the weathering of rocks. Understand how fossils are formed. Explore different types of soil.	Rocks and Soils Pebble In My Pocket. Amazing Landforms, Mary Anning. The Street Beneath my Feet.	Animals including Humans: Learn about food nutrition and the 5 key food groups. Learn about different types of skeletons. Learn the human skeleton. Explore the role of muscles.	Forces and Magnets: Explore contact and non-contact forces. Compare how things move on different surfaces. Explore the properties of different magnets and everyday objects that are magnetic. Understand how magnets are used and that magnetic forces can act at a distance.	Light and Shadow: Identify the difference between light sources and non-light sources. Sun safety. Explore materials which are reflective. Discover how shadows are formed. Investigate how shadows change throughout the day and how you can change the size of a shadow.	Plants: Compare the different factors on plant growth. Describe the functions of the different parts of a flowering plant and how they are used in photosynthesis. Investigate the way water is transported within plants. Explore the part that flowers play in the life cycle of a flowering plant. Understand the process of pollination and how seeds are dispersed. Compare the effect of different factors on plant growth.
Y4 Science	Animals including humans: Identify Organs, Organ Function, Teeth, Tooth Damage, Food Chains, Food Webs	Sound: How is it made?, Vibrations, Insulation, Volume, Pitch, Distance	Living Things and their habitats: Explore, Research, Analyse, Create Key, Adaptation and Species, Pond Plants	Living Things and their habitats: Explore, Research, Analyse, Create Key, Adaptation and Species, Pond Plants	States of Matter: Compare and group, Particles, Melting Points, Freezing and Boiling Points, Evaporation and Condensation, The Water Cycle	Electricity: Appliances and Safety, Components, Circuits, Conductors and Insulators, Switches, Changing Circuits
Y5 Science	Properties of Materials - Thermal conductors and insulators, hardness, solubility and separation.	Changes of Materials - Evaporation, reversible and irreversible changes and material reactions.	Earth and Space - The solar system, day and night and the phases of the moon.	Living Things and Their Habitats - Life processes of plants, animals, insects and amphibians.	Animals Including Humans - Changes in humans through to old age.	Forces - Explore gravity, air resistance, water resistance, friction, levers and pulleys and gears.
Y6 Science	Light: To explore how light travels and reflection; to investigate shadows and light phenomena.	Electricity: Explore components of a circuit; the effects of voltage; to apply knowledge of conductors and insulators.	Living Things and Their Habitats: Kingdoms of life; the Linnaean System; characteristics of micro-organisms.	Evolution and Inheritance: How and why offspring vary from their parents; animal and plant adaptations; fossils and natural selection.	Animals including Humans- function of the heart and circulatory system; blood and blood vessels; heart rate; impact of drugs and alcohol on the body.	Looking After Our Environment: what the climate is and how it changes; the difference between man-made and natural environment; where different types of animals live.

