



Science Overview, 2023 to 2024



	Cycle	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Class 1 (EYFS)	A	<u>Me and My Community/Let’s Explore/Once upon a time</u> Understanding the natural world. Changes that take place in Autumn. Using different materials.	<u>Starry Night/Dangerous Dinosaurs/ Ready Steady Grow</u> Past and present- the natural world. Light/dark.	<u>Sunshine and Sunflowers/Creep, Crawl and Wriggle/</u> Growing. Shadows. Animals that live around the world. Different climates			
Class 2 (Years 1 and 2)	A	<u>Everyday Materials</u> Natural and Manmade materials. Properties of materials. <u>Human Senses</u> Body parts. Knowledge of 5 senses. Sensory loss. Comparative testing.	<u>Seasonal Changes</u> Changes that take place in Animals and Evergreen and Deciduous trees. Seasonal weather changes. Work on Precipitation and the work on the weather.	<u>Plant parts</u> Looking at different parts of plants. Studying plants and bulbs. Investigating parts of plants including leaves. <u>Animal parts</u> Animals’ body parts. Classifying different animal groups- fish, birds, mammal’s reptiles etc.			
	B	<u>Human survival</u> Human life cycle and human needs for health and survival. Healthy lifestyles. Understand how germs spread. Working scientifically. <u>Habitats</u> Living and non-living things Identifying plants and animals in their habitat. Food chains/ adaptations. Food and shelter for animals.	<u>Uses of Materials</u> Looking at materials and their properties. Understanding the use of materials. Sustainability. Working scientifically. <u>Plant survival</u> How plants change throughout the seasons. Germination and plant growth. Changes over time.	<u>Animal survival</u> Habitats. Microhabitats. Food chains. Animal needs for survival. Life cycles of different types of animals.			
Class 3 (Years 3 and 4)	A	<u>Food and the digestive system</u> Producer/consumer. Changes in eco systems. Food chains and food webs. Digestive system- teeth. Functions of different teeth. Dental hygiene. <u>Sound</u>	<u>States of Matter</u> Exploring solids, liquids and gases- looking at particles. Changes of state- freezing, melting, condensation and evaporation. Line graphs, measuring temperature. <u>Grouping and Classifying</u>	<u>Electrical Circuits and Conductors</u> Electrical devices and sources of electricity. Incomplete and complete circuits. Conductors and insulators. Light bulbs, plugs.			

		Sound waves, how we hear sounds. Investigations of volume/ distance. Changing the pitch.	Different types of classifying- animals/ plants/plant kingdom.	
	B	<u>Animal Nutrition and the Skeletal System</u> Carnivores. Herbivores and omnivores. Human and animal diet including food groups. Skeleton- endoskeletons/exoskeletons.	<u>Forces and Magnets</u> Pushing and pulling. Magnetism. Attraction and repulsion. Magnetic properties. Friction. Force meters.	<u>Plant nutrition and reproduction</u> Plant parts, root systems, stems, leaves. Life cycle of flowering plants. Researching pollination. See formation and dispersal. <u>Lights and Shadows</u> Light reflectors and sources. Different types of reflective and non-reflective materials. Sun safety. Different types of materials- opaque, translucent, transparent. Shadows.
Class 4 (Years 5 and 6)	A	<u>Forces and mechanisms</u> Naming different forces including gravity/ friction/air resistance/water resistance. Mechanisms including pulleys and levers. <u>Earth and space</u> Solar system and how it was discovered. The Earth, Sun and Moon. Seasons. Phases of the moon and lengths of day.	<u>Human reproduction and Ageing</u> Animal life cycles. Classifying mammals. Interpreting scatter/line graphs graphs. Different stages of the Human Life cycle. Human sexual reproduction.	<u>Properties and Changes of Materials</u> Thermal insulator... Solubility. Thermal conductivity. Sieving, filtration, reversible and irreversible changes. Innovative materials
	B	<u>Circulatory system</u> Circulatory system including the heart's functions. Measuring heart rate. Blood vessels- structure and role. Effects of smoking and drugs. Proving a hypothesis.	<u>Electrical Circuits and Components</u> Series circuits. Circuit components. Cells/ batteries. Voltage charges. Sensors.	<u>Evolution and Inheritance</u> Theory of Evolution. Inheritance and variation. Natural selection and survival of the fittest. Adaptation.

Cycle A- Y1, Y4, Y5 topics

Cycle B- Y2, Y3, Y6 topics

I used the overview to get the topic headings using this link- <https://maestro.cornerstoneseducation.co.uk/curriculum/dashboard/10497/project-sequence>