



- Year A = Class 1 and Yr 1,3,5

Key Scientists

EYFS – People who help us – STEM

KS 1 – Ole Kirk Christiansen (invented Lego) Mae Jemison (first African-American in space), George Mottershead (founded Chester zoo)

LKS 2 - Women in STEM - Marie Curie (curing cancer), Rosalind Franklin (DNA), Mary Anning Fossil collector)

UKS2 - Albert Einstein (theory of relativity – forces/gravity), Stephen Hawking (space and time –study of blackholes) and Isaac Newton (gravity) Charles Darwin (evolution and inheritance) Alex Fleming (antibiotics)

	Biology		Chemistry	Physics	
			Working Scientifically		
EYFS	 People and communities		 Understanding the World	 The World	
Y1	 Plants	 Animals and Humans	 Materials	 Seasonal Changes	
Y2	 Animals and Humans	 Plants	 Living things and habitats	 Materials	
Y3	 Plants	 Animals and Humans	 Rocks	 Light	 Forces
Y4	 Living things and habitats	 Animals and Humans	 States of Matter	 Sound	 Electricity
Y5	 Animals and Humans	 Living things and habitats	 Every Day Materials	 Earth and space	 Forces
Y6	 Animals and Humans	 Living things and habitats	 Evolution and Inheritance	 Light	 Electricity



EYFS: Natural World (People and Communities & The World)

Natural World	<ul style="list-style-type: none"> Explore the natural world, make observations and draw pictures of animals and plants. Know some similarities and differences between our own environment and others – draw on experiences and information read in class. Understand effects of changing seasons on world around us. 				
Working Scientifically Taught through the topics	<ul style="list-style-type: none"> Ask questions Talk about what is being done in order to answer their questions Make observations Talk about why things happen Talk about changes 				
EYFS	Plants	Animals and Humans	Living things and Habitats	Everyday Materials	Seasonal Changes
Nursery	<ul style="list-style-type: none"> Explore plants and seeds and discuss their similarities and differences. 	<ul style="list-style-type: none"> Make observations of animals. Explain why something occur and talk about the change. 	<ul style="list-style-type: none"> Talk about their own environment, 	<ul style="list-style-type: none"> Explore a variety of materials and discuss their properties. Collect various objects from the outdoor environment and allow children to explore and play with them (stones, wood, bricks) 	<ul style="list-style-type: none"> To discuss how day changes to night.
Reception	<ul style="list-style-type: none"> Explore the different parts of a plant. To discuss where some foods come from. 	<ul style="list-style-type: none"> Identify some common animals and categorise. E.g. pets, farm, under the sea, jungle etc. Label some simple parts of the human body and associated senses. 	<ul style="list-style-type: none"> Explore plants from local environment and their features. 	<ul style="list-style-type: none"> Identify some common materials and compare and describe. 	<ul style="list-style-type: none"> Talk about changes in the different seasons
Key Vocabulary	Petal, Colours, Leaves, Stem.	Move, Walk, Run, Fly, Crawl	Shelter, Food, Water, Warmth, Same, Different,	Same, Different, Touch, Use. Soil, Rock, Stone Brick, Plastic, Cardboard, Metal, Wood, Glass, Hard, Soft	Day, Night, Hot, Cold. Rain, Snow, Sun, Moon, Stars, Clouds, Summer, Spring, Autumn, Winter

Class 2 (Year 1) Year A 2023-2024

Objectives	Topic	Key Scientists
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Vocabulary		
Autumn 1 <ul style="list-style-type: none"> Four seasons and the weather associated. Day length variance. Identify different trees and structure of a tree. Name deciduous and evergreen trees 	Weather – seasonal changes Plants incl trees	After unit Vocabulary Deciduous and evergreen
Autumn 2 <ul style="list-style-type: none"> Our changing world (Seasons) Distinguish between object and material. Name a variety of materials including: wood, plastic, glass, metal, water and rock. Simple physical properties and group based on physical properties. 	Everyday Materials	
Spring 1 <ul style="list-style-type: none"> Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies . 	Recap Seasons	
Spring 2 <ul style="list-style-type: none"> Identify and name a variety of common wild plants and garden plants Identify and describe the basic structure of common flowering plants inc trees 	Plants	
Summer 1 <ul style="list-style-type: none"> Identify a variety of fish, amphibians, reptiles, birds and mammals. Identify a variety of carnivores, herbivores and omnivores. Structure of common animals 	Animals inc. humans	George Mottershead (founded Chester zoo)
Summer 2 <ul style="list-style-type: none"> Parts of the human body associated with each sense. SRE/Ourselves 	Animals inc. Humans / Ourselves (SRE)	Mae Jemison (first African-American in space)

Class 3 (Year 3)

Year A 2023-2024 Objectives	Topic	Key Scientists
Autumn mini unit Life cycle of flowering plants(pollination, seed formation, seed dispersal).	Plants – Flowers, fruits and seeds	Marie Curie (curing cancer),
Autumn 1 + 2 <ul style="list-style-type: none"> Group and compare based on appearance and physical properties. 	Rocks and Soils	



<ul style="list-style-type: none"> • How fossils are formed. • Soil made from rocks and organic matter 		
<p>Spring 1</p> <ul style="list-style-type: none"> • Dark is the absence of light and needed to see. • Reflects from surfaces. • Sunlight can be dangerous and protecting eyes. • Shadows formed when light is blocked. 	Light	Mary Anning (Fossils collector)
<p>Spring 2</p> <ul style="list-style-type: none"> • Functions of different flowering plants. • Water transportation. • Life cycle of flowering plants (pollination, seed formation, seed dispersal) Cont. • 	Plants	
<p>Summer 1</p> <ul style="list-style-type: none"> • Nutrition for animals and humans. • Humans and animal's skeletons and muscles • SRE. 	Animals including Humans – skeletons/muscles SRE	Rosalind Franklin (Xray DNA)
<p>Summer 2</p> <ul style="list-style-type: none"> • Movement on different surfaces. • Difference between forces and magnetic forces. • Attract or repel. • Magnetic materials. • Poles 	Forces and magnets	

Class 4 (Year 5)

Objectives	Topic	Key Scientists
<p>Autumn 1</p> <ul style="list-style-type: none"> • Differences in life cycles. • Life processes in plants and animals. 	Living things and their habitats	
<p>Autumn 2</p> <ul style="list-style-type: none"> • Movement of Earth and other planets relative to the sun. • Movement of the moon relative to the Earth. • Earth's rotation to explain day and night. 	Space	Stephen Hawking (space and time – study of black holes)



Science LTP - Morland Area CE

Spring 1 <ul style="list-style-type: none">• Group based on hardness, solubility, transparency, conductivity and response to magnets.• Dissolving and how to separate some solutions.	Properties of Materials	
Spring 2 <ul style="list-style-type: none">• Filtering, sieving and evaporating.• Reversible and irreversible changes.	Changes in Materials	
Summer 1 <ul style="list-style-type: none">• Gravity between Earth and falling object.• Air resistance, water resistance and friction.• Levers, pulleys and gears.	Forces	Albert Einstein (theory of relativity – forces/gravity and Isaac Newton (gravity)
Summer 2 <ul style="list-style-type: none">• SRE & Changes in humans over time	Life cycles/habitats cont SRE	