

Marston Thorold's Science Curriculum Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	All about me	Back to nature	Once upon a time	Blast off	Food	At the seaside
Year 1/2 Cycle A	Seasonal Changes (Y1)	Everyday materials (Y1)	Uses of everyday materials (Y2)	Plants (Y1)	Animals including humans (Y1)	Animals including humans (Y1)
Year 1/2 Cycle B	Seasonal Changes (Y1)	Living things and their habitats (Y2)		Plants (Y2)	Animals including humans (Y2)	Animals including humans (Y2)
Year 3/4 Cycle A	Electricity (Y4)	Rocks and fossils (Y3)	Sound (Y4)	States of matter (Y4)	Living things and their habitats (4)	
Year 3/4 Cycle B	Forces and magnets (Y3)	Forces and magnets (Y3)	Animals including humans (Y3)	Light (Y3)	Plants (Y3)	Animals including humans (Y4)
Year 5/6 Cycle A	Electricity (Y6)	All living thing and their habitats (Y6)	Earth and space (Y5)	Light (Y6)	Forces – Gravity, friction, levers, pulleys & gears (Y5)	All living things and their habitats and Animals including humans (Y5)
Year 5/6 Cycle B	Animals including humans (Y6)		Evolution and inheritance (Y6)	Forces – Gravity, air and water resistance (Y5)	Properties and changes of materials (Y5)	

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	EYFS	Year 1/2 Cycle A	Year 1/2 Cycle B
Animals including humans	Age 3-4 - Know that they need to respect and care for the environment and all living things Reception - Know how to explore the natural world around them through the five senses - Know how to describe what they see, hear and feel whilst outside including plants and animals. - Know how to name and describe some animals in their local environment	Year 1 - Know how to name and describe the structures of some animals from the animal groups: mammals, birds, fish, amphibians and reptiles. - Know the basic structure of the human body and its senses. - Know how to identify and name a variety of common animals that include carnivores, herbivores and omnivores	Year 2 - Know that offspring grow into adults and what they need to survive - Know the importance for humans to exercise, eat well (basic food groups) and keep clean
Living things and habitats	Reception Know how to recognise some environments that are different to the one in which they live e.g. Antarctica		Year 2 - Know the difference between living, dead and never alive - Know which plants and animals live in certain habitats and how they are suited to their environment, including micro habitats - Know how to describe simple food chains
Plants	Age 3-4 - Know how to plant seeds and care for growing plants Reception - Know how to name and describe some plants in their local environment	Year 1 - Know how to identify and describe the basic structure of plants, including trees - Know how to identify and name a variety of common garden plants and trees, including deciduous and evergreen trees	Year 2 Know how to observe and describe how seeds and bulbs grow into plants and what they need to grow and stay healthy
Seasons	Reception - Know some effects of changing seasons on the natural world around them. e.g. plant growth in summer and lack of food for birds in winter - Know how animals and plants behave differently as the seasons change	Year 1 - Know how to observe changes in weather and day length across the four seasons - Know how to name the four seasons and describe other changes across the seasons	Year 1 - Know how to observe changes in weather and day length across the four seasons - Know how to name the four seasons and describe other changes across the seasons
Everyday materials	Age 3-4 - Know how to explore and talk about different forces they can feel - Know how to explore and talk about different materials Reception - Know how to observe and interact with natural processes such as ice melting, a sound causing vibration, light travelling through transparent material, an object casting a shadow, a magnet attracting an object and a boat floating on water	Year 1 - Know how to identify, name and group a variety of everyday materials, describing simple properties - Know the difference between objects and materials Year 2 - Know how to identify, name and group a variety of everyday materials, describing simple properties - Know the difference between objects and materials	

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	Year 3/4 Cycle A	Year 3/4 Cycle B	Year 5/6 Cycle A	Year 5/6 Cycle B
Animals including humans		Year 3 - Know that animals require the right types of nutrition (food groups) and have skeletons and muscles for support, protection and movement Year 4 - Know and describe functions of basic parts of digestive system, including teeth - Know how to construct and interpret food chains	Year 5 - Know and describe the changes as humans develop into old age. (Animals including Humans/Living things and Habitats) - Know how to compare the life cycles of different animal types, describing the process of reproduction in some plants and animals.	Year 6 Know how diet, exercise and drugs impact on the human body, including the circulatory system
Living things and habitats	Year 4 - Know how to group living things using classification keys (animals and plants) - Know how changes in environment can impact living things (climate change).		Year 6 Know how to describe how living things (including micro-organisms and arthropods) are classified based on observable characteristics, similarities and differences – Linnaeus'	
Plants		Year 3 Know about plant life cycles and the functions of different plant parts		
Properties and changes of materials and states of matter	Year 4 - Know how to compare and group materials based on their state of matter: solids, liquids and gases; observing how temperature changes some materials. - Know the parts that evaporation, condensation and precipitation play in the water cycle.			Year 5 - Know how to compare and group materials based on their properties: solubility, conductivity, transparency, response to magnets. - Know how to demonstrate dissolving, separating mixtures and make a solution - Know how to explain reversible and irreversible changes
Forces and Magnets		Year 3 - Know how to compare how things move on different surfaces (friction) - Know that magnets attract/repel each other and attract some other materials.	Year 5 Know and explore the effects of gravity, water, air resistance and friction.	
Electricity	Year 4 - Know how to construct a simple series circuit, predicting whether a lamp will work or not and why. - Know and recognise conductors and insulators		Year 6 - Know how to compare and give reasons for variation in how electrical components function. - Know how to draw simple circuit diagrams using symbols.	
Light		Year 3 Know that light is needed to see, how it creates shadows and that light from the Sun can be dangerous	Year 6 - Know that light appears to travel in straight lines and how this allows us to see. - Know why shadows have the same shape as the object that cast them	

Sound	Year 4 • Know sounds are made by vibrations travelling to the ear through a medium. • Know how pitch and volume change with changes to the vibration source.			
Rocks	Year 3 • Know how to compare and group rocks, exploring how fossils are made and recognising what soils are made from			
Earth and Space			Year 5 • Know and describe the relationship between the Earth, Sun and Moon and know about the planets in our solar system	
Evolution and Inheritance				Year 6 • Know that living things change over time: adaptation, evolution, natural selection, fossils

Marston Thorold School Curriculum Overview – Science

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS	To follow					
Year 1/2 Cycle A	Y1 Enquiry Question: What happens to trees and the weather over a year? Y2 Enquiry Question: Why can you play outside for longer in the summer?	Enquiry Question: What should Muggle-Wump build his house out of?	Enquiry Question: What is a yacht made from and why?	Y1 Enquiry Question: What are plants? Y2 Enquiry Question: How can we grow the biggest plant?	Enquiry Question: How could we describe one of the creatures from 'Where the Wild things are' using scientific vocabulary?	Enquiry Question: What are humans?
Year 1/2 Cycle B	Y1 Enquiry Question: What happens to trees and the weather over a year? Y2 Enquiry Question: Why can you play outside for longer in the summer?	Enquiry Question: How do living things survive?	Enquiry Question: Could a frog live in the ocean and a shark live in a large pond?	Y1 Enquiry Question: What are plants? Y2 Enquiry Question: How can we grow the biggest plant?	Enquiry Question: How do we know that animals grow?	Enquiry Question: What do we need to do to be healthy?
Year 3/4 Cycle A	Enquiry Question: Why does the television turn on when I press the button?	Enquiry Question: What is a rock?	Enquiry Question: How does a stringed instrument change the sound it makes?	Enquiry Question: Why does my ice cream melt in summer?	Enquiry Question: What are the differences between a fox, woodlouse, sunflower and mushroom?	Enquiry Question: Why are polar bears an endangered species?
Year 3/4 Cycle B	Enquiry Question: Why do cars skid in winter?	Enquiry Question: In Toy Story 3, how do the toys escape the rubbish cutters at the tip?	Enquiry Question: How do we move?	Enquiry Question: What is a shadow?	Enquiry Question: How do plants reproduce?	Enquiry Question: Why do we poo?
Year 5/6 Cycle A	Enquiry Question: Why do I have to use 2 AA batteries in my torch?	Enquiry Question: Why is it important to wash our hands?	Enquiry Question: Why can't we always see the sun and the moon?	Enquiry Question: How can we see around corners?	Enquiry Question: How could a shipwreck be raised from the seabed?	Enquiry Question: Do all living things go through puberty?
Year 5/6 Cycle B	Enquiry Question: Why do we need blood?	Enquiry Question: How and why do we need to keep our heart healthy?	Enquiry Question: Why does a giraffe have such a long neck?	Enquiry Question: How is a space rocket able to launch into space?	Enquiry Question: What do toast, boiled eggs and cake have in common?	Enquiry Question: How can you separate a mixture of rice, paperclips, water, sand and salt?