



Whole School SCIENCE Overview – Year A



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Whole School	W7 – Black History Assembly	W1 – Book Week (literacy) W2 – Anti-Bullying day	W1 – RE Week	W2 – Book Day		W6 – History/Geography W W7 – PE/Well-being week
EYFS	EYFS uses yearly topics for progression in all areas of learning. Science is taught through a big question out of one week in the half term (term for pre-school) and labelled on the science overview as SQ meaning science question. This is linked to an area of science learning for the national curriculum					
Pre-school	What makes me, me?		Who are the amazing animals that appear in my story?		Look up, look down, Look all around?	
	Science question – What different things can I feel? Materials and properties		SQ – Which animals live near me? Living things and animals		SQ – How is outside changing? Seasons and Natural Phenomena	
Nursery	Who lives in my house?		Is the insect the same as a bug?	What do know about the amazing animals in my story?	Mary, Mary, quite contrary. How does your garden grow?	What can I do with water?
	SQ – Who is in my family? Humans	SQ – What kind of house do I live in? Materials and changing materials	SQ – What lurks in the pond? Living things and their habitats	SQ – What can we get from a farm animal? Animals (not including humans)	SQ – How does Mary’s Garden grow? Plants	SQ – Will it float or does it sink? Forces
Reception	What do I know about me?	Who’s afraid of the Big Bad Wolf?	Where would the naughty bus travel?	How do we know the pirates are coming?	Would we see dinosaurs in Timperley Village?	Why are vegetables super?
	SQ – How am I part of my family? Humans	SQ – Where do the characters in my fairytale live? Animals not inc. humans	SQ – How can the naughty bus travel to different places? Forces	SQ - What’s the best material for a pirate ship? Materials and changing materials	SQ - Which is the best habitat for a dinosaur to live in? Living things and their habitats	SQ – What does a plant need to grow? Plants
KS1	Childhood – Then and now	Fire	Circle of Life		What makes this place special	
Year 1	<u>Animals – Sensitive Bodies</u>	<u>Forces and Space – Seasonal Changes</u>	<u>Animals – Comparing Animals</u>	<u>Plants – Introduction to plants</u>	<u>Materials – Everyday Materials</u>	<u>Making Connections</u>
	Miller Hutchingson – Engineer who invented the electric hearing aid	Jim Cantore – Meteorologist and storm tracker	Chris Packham – Zoologist and presenter	Agnes Arber – Researched and drew plants and historical botany	Chester Greenwood – Inventor of earmuffs	MC – investigating Science through stories
Year 2	<u>Animals – Life cycles and health</u>	<u>Materials – Uses of Everyday Materials</u>	<u>Plants – Growths</u>	<u>Living Things – Habitats</u>	<u>Living Things – Microhabitats</u>	<u>Making Connections</u>
	Maria Sibylla Merian – Published findings of life cycles with drawings	Charles Mackintosh – Inventor of waterproof raincoat	Angie Burnett – Plant Biologist who grows plants in different conditions and tests	Prem Singh Gill – Polar scientist who studies where Antarctic seals live, breed and feel	Helen Scales – Marine biologist who studies rockpools and has written children’s books.	MC – Plant based materials
LKS2	Stone Age to Celts	Our Brilliant Bodies	The Rotten Romans	Lights, Camera Action	The British Empire	The Rainforest
Year 3	<u>Materials – Rocks and Soil</u>	<u>Animals – Movement and Nutrition</u>	<u>Forces and Space – Forces and Magnets</u>	<u>Energy – Light and Shadows</u>	<u>Plants – Plant Reproduction</u>	<u>Making Connections</u>
	Florence Bascom – Geologist who studied the formation of mountains.	Ruth Wakefield – dietician inventing first choc chip cookie	William Gilbert – Developed theory of magnetism	Percy Shaw – Inventor of the Cat’s eye	George Washington Carver – Discovered new plants	MC – Does hand span affect grip strength?
Year 4	<u>Materials – States of Matter</u>	<u>Animals – Digestion and food</u>	<u>Energy – Electricity and Circuits</u>	<u>Energy – Sounds and Vibrations</u>	<u>Living Things – Classification and Changing Habitats</u>	<u>Making Connections</u>
	Robert Boyle – discovered volume of a gas decreases with pressure – the Boyle Law	Paul Sharpe – Bioengineer who studies how to regrow teeth	Michael Faraday – Physicist inventing first electric motor	Alexander Graham Bell – Invented the telephone and a hearing test machine	Rachel Carson – Aquatic Biologist who wrote about environmental pollution.	MC – How does the flow of liquids compare?

UKS2	Ancient Greeks	Circuit Builders	Raging Rivers and Monstrous Mountains		How do we see?	Ancient Egypt
<u>Year 5</u>	<u>Forces and Space – Imbalanced Forces</u>	<u>Living Things and their Habitats – Life Cycles and Reproduction</u>	<u>Materials – Mixtures and Separation</u>	<u>Materials – Properties and Changes</u>	<u>Forces and Space – Earth and Space</u>	<u>Animals – Human Timeline Making Connections</u>
	Archimedes (287BC – 212BC) - Buoyancy Isaac Newton – Laws of motion & gravity	Jane Goodall – Close study of gorillas David Attenborough – Naturalist and TV presenter	Amalie Auguste Melitta Bentz – Invented the paper coffee filter	Ruth Benerito – Chemist/Textiles Spencer Silver & Arthur Fry – Chemical engineers who invented Post-it notes.	Mae Jemison – Astronaut and first black woman in space Margaret Hamilton – Computer scientist during Apollo 11 journey.	Robert Winston – Professor of Science and Society who studies fertility and childhood (TV presenter) MC – Does the size of an asteroid affect the size of its impact crater?
<u>Year 6</u>	<u>Animals – Circulation and Health</u>	<u>Energy – Circuits, Batteries and Switches</u>	<u>Living Things – Classifying Big and Small</u>	<u>Living Things – Evolution and Inheritance</u>	<u>Energy – Light and Reflection</u>	<u>Making Connections</u>
	Dr Christian Barnard – First Heart transplant Professor Tu Youyou – Malaria	Alexander Volta – Invented 1 st Battery Thomas Eddison – Light Bulb	Carl Linnaeus – Botanist and Zoologist who developed taxonomy for classification.	Charles Darwin – Biologist Mary Anning - Fossils	Colin Webb – Professor of Lazer Physics.	Making connections – Are some sunglasses safer than others?



Whole School SCIENCE Overview – Year B



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Whole School	W7 – Black History Assembly	W1 – Book Week (literacy) W2 – Anti-Bullying day W6 – Spanish day	W1 – RE Week			W6 – STEM day W7 – PE/Well-being week
EYFS	EYFS uses yearly topics for progression in all areas of learning. Science is a part of continuous provision. Science is taught through a big question out of one week in the half term (term for pre-school) and labelled on the science overview as SQ meaning science question. This is linked to an area of science learning for the national curriculum					
Pre-school	What makes me, me?		Who are the amazing animals that appear in my story?		Look up, Look down, Look all around?	
	Science question – What different things can I feel? Materials and properties		SQ – Which animals live near me? Living things and animals		SQ – How is outside changing? Seasons and Natural Phenomena	
Nursery	Who lives in my house?		Is the insect the same as a bug?	What do know about the amazing animals in my story?	Mary, Mary, quite contrary. How does your garden grow?	What can I do with water?
	SQ – Who is in my family? Humans	SQ – What kind of house do I live in? Materials and changing materials	SQ – What lurks in the pond? Living things and their habitats	SQ – What can we get from a farm animal? Animals (not including humans)	SQ – How does Mary's garden grow? Plants	SQ – Will it float or does it sink? Forces
<u>Reception</u>	What do I know about me?	Who's afraid of the Big Bad Wolf?	Where would the naughty bus travel?	How do we know the pirates are coming?	Would we see dinosaurs in Timperley Village?	<u>Why are vegetables super?</u>
	SQ – How am I part of my family? Humans	SQ – Where do the characters in my fairytale live? Animals inc. humans	SQ – How can the naughty bus travel to different places? Forces	SQ - What's the best material for a pirate ship? Materials and changing materials	SQ - Which is the best habitat for a dinosaur to live in? Living things and their habitats	SQ – What does a plant need to grow? Plants

KS1	Who did it?	Investigating India	Superheroes		The Seaside	
<u>Year 1</u>	<u>Animals – Sensitive Bodies</u>	<u>Forces and Space – Seasonal Changes</u>	<u>Plants – Introduction to plants</u>	<u>Materials – Everyday Materials</u>	<u>Animals – Comparing Animals</u>	<u>Making Connections</u>
	Miller Hutchingson – Engineer who invented the electric hearing aid	Jim Cantore – Meteorologist and storm tracker	Agnes Arber – Researched and drew plants and historical botany	Chester Greenwood – Inventor of earmuffs	Chris Packham – Zoologist and presenter	MC – investigating Science through stories
<u>Year 2</u>	<u>Animals – Life cycles and health</u>	<u>Living Things – Habitats</u>	<u>Plants – Growths</u>	<u>Materials – Uses of Everyday Materials</u>	<u>Living Things – Microhabitats</u>	<u>Making Connections</u>
	Maria Sibylla Merian – Published findings of life cycles with drawings	Prem Singh Gill – Polar scientist who studies where Antarctic seals live, breed and feel	Angie Burnett – Plant Biologist who grows plants in different conditions and tests	Charles Mackintosh – Inventor of waterproof raincoat	Helen Scales – Marine biologist who studies rockpools and has written children’s books.	MC – Plant based materials
LKS2	Buried Treasure Anglo Saxons	Buried Treasure The Vikings	Volcanoes and Earthquakes	Where does our food come from? Including Plants		Sounds Amazing
<u>Year 3</u>	<u>Animals – Movement and Nutrition</u>	<u>Forces and Space – Forces and Magnets</u>	<u>Materials – Rocks and Soil</u>	<u>Plants – Plant Reproduction</u>	<u>Energy – Light and Shadows</u>	<u>Making Connections</u>
	Ruth Wakefield – dietician inventing first choc chip cookie	William Gilbert – Developed theory of magnetism	Florence Bascom – Geologist who studied the formation of mountains.	George Washington Carver – Discovered new plants	Percy Shaw – Inventor of the Cat’s eye	MC – Does hand span affect grip strength?
<u>Year 4</u>	<u>Living Things – Classification and Changing Habitats</u>	<u>Energy – Electricity and Circuits</u>	<u>Materials – States of Matter</u>	<u>Animals – Digestion and food</u>	<u>Energy – Sounds and Vibrations</u>	<u>Making Connections</u>
	Rachel Carson – Aquatic Biologist who wrote about environmental pollution.	Michael Faraday – Physicist inventing first electric motor	Robert Boyle – discovered volume of a gas decreases with pressure – the Boyle Law	Paul Sharpe – Bioengineer who studies how to regrow teeth	Robert Boyle – Discovered sound travels through air	MC – How does the flow of liquids compare?
UKS2	Amazing Africa	Adventures in Space	Is it right to fight?		Biodiversity/Dinosaurs	The Americas
<u>Year 5</u>	<u>Living Things – Life Cycles and Reproduction</u>	<u>Forces and Space – Earth and Space</u>	<u>Forces and Space – Imbalanced Forces</u>	<u>Materials – Mixtures and Separation</u>	<u>Animals – Human Timeline</u>	<u>Materials – Properties and Changes</u> <u>Making Connections</u>
	Jane Goodall – Close study of gorillas David Attenborough – Naturalist and TV presenter	Mae Jemison – Astronaut and first black woman in space Margaret Hamilton – Computer scientist during Apollo 11 journey.	Archimedes (287BC – 212BC) - Buoyancy Isaac Newton – Laws of motion & gravity	Amalie Auguste Melitta Bentz – Invented the paper coffee filter	Robert Winston – Professor of Science and Society who studies fertility and childhood (TV presenter)	Ruth Benerito – Chemist/Textiles Spencer Silver & Arthur Fry – Chemical engineers who invented Post-it notes. MC – Does the size of an asteroid affect the size of its impact crater?
<u>Year 6</u>	<u>Living Things – Classifying Big and Small</u>	<u>Energy – Light and Reflection</u>	<u>Energy – Circuits, Batteries and Switches</u>	<u>Animals – Circulation and Health</u>	<u>Living Things – Evolution and Inheritance</u>	<u>Making Connections</u>
	Carl Linnaeus – Botanist and Zoologist who developed taxonomy for classification.	Colin Webb – Professor of Lazer Physics.	Alexander Volta – Invented 1 st Battery Thomas Eddison – Light Bulb	Dr Christian Barnard – First Heart transplant Professor Tu Youyou – Malaria	Charles Darwin – Biologist Mary Anning - Fossils	Making connections – Are some sunglasses safer than others?