

Science

Year Group	Autumn Term		Spring Term		Summer Term	
EYFS	Explore the natural world around them, making observations and drawing pictures of animals and plants. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.					
Year 1	Animals including humans	Seasonal changes	Plants		Everyday materials	
Learning Powers and values	Curiosity – asking and answering questions	Curiosity – exploring how the weather does change and the effect this takes on our world	Resilience- When dissecting flowers/plants to understand the basic structure		Self-Belief- When creating a house out of materials for Spiders. Kindness and respect for others- When sharing resources with our friends.	
Opportunities for exploring and celebrating diversity	Jotello Soga- First black member of The Royal College of Veterinary surgeons.	Dianne White Clatto- First fulltime black television weathercaster in the US	Mary Seacole		A scientist just like me – Pearl Agyakwa	
Year 2	Living things and their habitats		Plants	Animals including humans	Use of everyday materials	
Learning Powers and values	Kindness- when exploring habitats being careful not to damage any homes to insects. Respect- Caring for the environment		Resilience- Allowing for time to see what environment is best suited for a plant to grow	Self-belief - when taking part in physical exercise during experiments	Curiosity- Investigating the properties of materials	
Opportunities for exploring and celebrating diversity	Charles H. Turner		George Washington Carver	Alexa Canady	Sarah Goode, inventor A scientist just like me – Daniel Azahan	
Year 3	Plants	Rocks	Animals including humans		Light	Forces and magnets
Learning Powers and values	Curiosity- When investigating how water travels in a plant	Curiosity- When grouping and exploring different kinds of rocks	Self-Belief- When understanding nutrition and exploring skeletons and muscles		Resilience- When completing tests to create reflections	Respect for others- When working in groups to explore forces.
Opportunities for exploring and celebrating diversity	A scientist just like me – Dr Ben Woodcock Percy Julian	Dr. Jassel Majeবাদia	Zubair Haleem- Physio at Arsenal FC		Patricia Bath	Elijah McCoy

Year 4	Living things and their habitats	Animals including humans	States of matter		Sound	Electricity
Learning Powers and values	Resilience- When classifying, grouping and naming a variety of living things in our local and wider area	Respect for others- When looking at teeth some of our teeth may be different to others.	Self-belief- When testing and comparing solids, gases and liquids. Curiosity- When testing the change of state when heating/cooling		Respect for others- be mindful of any children with hearing difficulties Curiosity- When exploring vibrations and their patterns	Kindness- When sharing resources to create a circuit. Listening to others idea when working in a group. Resilience- When creating own switches, they may not work first time, try and try again.
Opportunities for exploring and celebrating diversity	Ernest Everett Just	Charlotte Armah	Anwar Khan		Signkid- Deaf Musician who uses vibrations to create own beats to rap to	Lewis. H Latimer- helped not only invent the lightbulb, but also create the electric industry as we know it today.
Year 5	Properties and changes of materials	Forces	Earth and space		Living things and their habitats	Animals including humans
Learning Powers and values	Resilience- When exploring reversible and irreversible changes	Curiosity- When exploring Gravity, air resistance, water resistance and friction.	Self-Belief- When describing the moon's movement and explaining day and night		Resilience- When exploring reproduction Curiosity- When exploring life cycles	Kindness- When using language related to 'older adults.'
Opportunities for exploring and celebrating diversity	Walter Lincoln Hawkins	JYOJYOTI SEHDEV	A scientist just like me – Maggie Aderin-Pockock Mae Jemison- First black person to travel to space		Malaika Vaz	Charles Henry Turner
Year 6	Living things and their habitats	Evolution and inheritance	Light	Electricity	Animals including humans	
Learning Powers and values	Curiosity- When exploring similarities and differences in micro-organisms, plants and animals	Curiosity- When exploring fossils to inform us of our world from the past	Resilience- When addressing tricky concepts about the way light travels	Self-Belief- when testing buzzers and light voltage in a circuit	Respect for others- When exploring how diet, lifestyle and drugs effect our bodies.	
Opportunities for exploring and	PERCY L. JULIAN	A scientist just like me – Dr Kelsey Buyers and Telma G Laurentino	Edward Alexander Bouchet, Ph.D- became the first person of colour to	Mo Ibrahim	Marie Daly, chemist Dame Elizabeth Nneka Anionwu	

celebrating diversity			receive a PHD. His experiments focused on how light is absorbed, reflected, or bent as it travels through different glass materials Dr. Patricia Bath- discovered genetic eye issues and increased eye care for those more likely to develop glaucoma. C.V. Raman		
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