



John Henry Newman Academy Curriculum Map

SCIENCE				
Area of study:- Biology , Chemistry , Physics				
The Foundations of Science in the EYFS				
Nursery	Three and four year olds	Communication and Language		Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"
		Personal, Social and Emotional Development		Make healthy choices about food, drink, activity and tooth brushing.
		Understanding the World		- Use all their senses in hands-on exploration of natural materials. - Explore collections of materials with similar and/or different properties. - Talk about what they see, using a wide vocabulary. - Begin to make sense of their own life- story and family's history. - Explore how things work. - Plant seeds and care for growing plants. - Understand the key features of the life cycle of a plant and an animal. - Begin to understand the need to respect and care for the natural environment and all living things. - Explore and talk about different forces they can feel. - Talk about the differences between materials and changes they notice.
Reception		Communication and Language		- Learn new vocabulary. - Ask questions to find out more and to check what has been said to them. - Articulate their ideas and thoughts in well-formed sentences. - Describe events in some detail. - Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. - Use new vocabulary in different contexts.
		Personal, Social and Emotional Development		- Know and talk about the different factors that support their overall health and wellbeing: -regular physical activity -healthy eating -tooth brushing -sensible amounts of 'screen time' -having a good sleep routine -being a safe pedestrian
		Understanding the World		- Explore the natural world around them. - Describe what they see, hear and feel while they are outside. - Recognise some environments that are different to the one in which they live. - Understand the effect of changing seasons on the natural world around them.
E.L.G.		Communication and Language	Listening, Attention	Make comments about what they have heard and ask questions to clarify their understanding.



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		And Understanding				
	Personal, Social and Emotional Development	Managing Self	• Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.			
	Understanding the World	The Natural World	• 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.			
KS1 / KS2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	To understand animals and humans. To understand evolution and inheritance.	To investigate materials.	To understand light and seeing. To understand the Earth's movement in space.	To investigate movement, forces and magnets. To understand sound and hearing.	To understand plants.	To investigate living things.
						To understand electrical circuits.
Year 2	To understand animals and humans. To understand evolution and inheritance.	To investigate materials.	To understand light and seeing. To understand the Earth's movement in space.	To investigate movement, forces and magnets. To understand sound and hearing.	To understand plants.	To investigate living things.
						To understand electrical circuits.
Year 3	To understand animals and humans.	To understand materials (rocks and fossils).	To understand light and seeing. To understand Earth's movement in space.	To understand movement, forces and magnets. To investigate sound and hearing.	To understand plants. To investigate living things. To understand evolution and inheritance.	To investigate materials.
						To understand electrical circuits.



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Year 4	To understand animals and humans.	To understand materials (rocks and fossils).	To understand light and seeing. To understand Earth's movement in space.	To understand movement, forces and magnets. To investigate sound and hearing.	To understand plants. To investigate living things. To understand evolution and inheritance.	To investigate materials.
						To understand electrical circuits.
Year 5	To understand animals and humans.	To investigate materials.	To investigate light and seeing. To investigate sound and hearing.	To understand the Earth's movement in space. To understand movement, forces and magnets.	To understand evolution and inheritance. To investigate living things. To understand plants.	To investigate materials.
						To understand electrical circuits.
Year 6	To understand animals and humans.	To investigate materials.	To investigate light and seeing. To investigate sound and hearing.	To understand the Earth's movement in space. To understand movement, forces and magnets.	To understand evolution and inheritance. To investigate living things. To understand plants.	To investigate materials.
						To understand electrical circuits.