



St Francis and St Joseph's Catholic Primary Schools
Executive Headteacher: Mrs S. Ginzler-Maher

Christ The King Federation - Curriculum Map Overview for Science 2022-2023





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Biology - Green Physics - Purple Chemistry - Orange

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
EYFS			Plants	British Science Week. Enrichment activities		
Year 1 (Twinkl)	Animals including humans	Seasonal Changes - Autumn and Winter	Everyday Materials	British Science Week. Enrichment activities	Seasonal Changes -Spring and Summer	Plants
Scientists and Inventors (Twinkl)	George Mottershead - Zoos without bars		Lego Inventor Ole Kirk Christiansen			Plant scientists

Biology - Green Physics - Purple Chemistry - Orange

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 2 (Twinkl)	Living things and their habitats	Use of everyday materials	The Environment	British Science Week. Enrichment activities	Plants	Animals including humans
Scientists and Inventors (Twinkl)		Charles Macintosh invention of waterproof fabric	Rachel Carson - discovered dangers of chemical pollution in the ocean		Jane Colden and her work on plants	Louis Pasteur

Science Week - Spring Two

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 3 (Twinkl)	Forces and Magnets	Animals including humans	Rocks	British Science Week.	Plants	Light

			Enrichment		
			activities		
Scientists and	Inge Lehmann -	William Smith		Sir Joseph Banks	
Inventors	seismologist work on waves and	study of geology		introduced 80	
(Twinkl)	energy			species of plants	

Biology - Green Physics - Purple Chemistry - Orange

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	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 4 (Twinkl)	Sound	States of matter	Living things and their habitats	British Science Week. Enrichment activities	Electricity	Animals including humans
Scientists and Inventors (Twinkl)	Alexander Graham Bell Telephone invention		Gerald Durrell- conservationist		Thomas Edison - Electricity	

Science Week - Spring Two

Biology - Green

Physics - Purple

Chemistry – Orange

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 5 (Twinkl)	Earth and Space	Forces	Living things and their habitats	British Science Week. Enrichment activities	Properties and changes of materials	Animals including humans
Scientists and Inventors (Twinkl)			David Attenborough		Stephanie Kwolek	Eva Crane

Science Week - Spring Two

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 6 Twinkl Units	Animals including humans	Light	Electricity	British Science Week.	Living things and their habitats	Evolution and Inheritance

			Enrichment activities		
Scientists and Inventors	Alexander Fleming	Stephen Hawking		Libbie Hyman	Mary Leaky

Biology - Green Physics - Purple Chemistry - Orange

Science Week - Spring Two

St. Francis School - Gaps in Science Learning due to the Pandemic Reviewed Autumn 2021

Year 1 Seasonal Changes Possible links When will it be covered?							
N.C Statements	National Curriculum Statements						
Observe changes across the four seasons.	Recognise that they need light in order to see things and that dark is the absence of light. (Y3 Light)	Y3 Light topic (Year 2022-2023)					
Observe and describe weather associated with the seasons and how day length	Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. (Y3 Light)						
varies.	Find patterns in the way that the size of shadows change. (Y3 Light)						
Year 3 Rocks	Possible links	When will it be covered?					

N.C Statements	National Curriculum Statements	
Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Recognise that soils are made from rocks and organic matter.	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. (Y5 Materials) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. (Y5 Materials)	Y5 Materials topic (Year 2022 – 2023)
Describe in simple terms how fossils are formed when things that have lived are trapped within rock.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. (Y6 Evolution) Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. (Y6 Evolution)	Y6 Evolution topic (Year 2023-2024)
Year 3 Forces – Part cov. N.C Statements	Possible links National Curriculum Statements	When will it be covered?
Compare how things move on different surfaces. Replace Notice that some forces need contact between two objects, but magnetic forces can act at a distance.	Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. (Y5 Forces) Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. (Y5 Forces)	Y5 Forces (Year 2022-2023)

Observe how magnets attract or repel each other and attract some materials and not others.	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. (Y5 Properties of Materials)	Magnets to revisit in Y5 Properties of Materials (Year 2022- 2023)
Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.		
Describe magnets as having two poles. [37]		
Predict whether two		
magnets will attract or repel		
each other, depending on		
which poles are facing.		
Year 3 Light – Part cov. N.C Statements	Possible links National Curriculum Statements	When will it be covered?
Recognise that they need	Compare and group together everyday materials on the basis of their	Y5 Properties of Materials (Year 2022 –
light in order to see things	properties, including their hardness, solubility, transparency,	2023)
and that dark is the absence	conductivity (electrical and thermal), and response to magnets. (Y5 -	
of light.	Properties and changes of materials)	
Notice that light is reflected from surfaces.		

December that light from	Describe that light appears to travel in straight lines (17/4/6 Light)	Y6 Light
Recognise that light from the sun can be dangerous	Recognise that light appears to travel in straight lines. (Y6 Light)	(Year 2023 – 2024)
and that there are ways to	Use the idea that light travels in straight lines to explain that objects	,
protect their eyes.	are seen because they give out or reflect light into the eye. (Y6	
Recognise that shadows are formed when the light from a light source is blocked by an opaque object.	Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. (Y6 Light)	
Find patterns in the way that the size of shadows change.	Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. (Y6 Light)	
Year 4 Animals, including humans (missed 2019-2020) N.C Statements	Possible links National Curriculum Statements	When will it be covered?
Describe the simple functions of the basic parts of the digestive system in humans.	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. (Y6 Animals including humans)	Y6 Animals, including humans Year (2021 – 2022)
Identify the different types of teeth in humans and their simple functions.	Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function. (Y6 Animals, including humans) Describe the ways in which nutrients and water are transported	
Simple functions. SES	within animals, including humans. (Y6 Animals, including humans)	

Construct and interpret a variety of food chains, identifying producers, predators and prey	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals. (Y6 Living things and their habitats) Give reasons for classifying plants and animals based on specific characteristics. (Y6 Living things and their habitats)	Y6 Living things and their habitats (Year 2021 – 2022)
Year 5 Forces N.C Statements	Possible links National Curriculum Statements	When will it be covered?
		Revisited in KS3
Year 5 Living things and their habitats N.C Statements	Possible links National Curriculum Statements	When will it be covered?
	(17) (SEP)	Revisited in KS3 reproduction

St. Josephs School - Gaps in Science Learning due to the Pandemic				
Reviewed Autumn 2021				
Year 2 Environment	Possible links	When will it be covered?		
N.C Statements	National Curriculum Statements			
This is mainly a working scientifically unit on	Y2 Plants	On going 'working		
ecological challenges. Many of these skills would also	Y2 Animals, including humans	scientifically' skills		
have been covered in other Y2 units.	Y2 Living things in their habitats.	-		
Year 2 Plants (part done)	Possible links	When will it be covered?		
N.C Statements	National Curriculum Statements			

Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. (Y3 Plants) Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. (Y3 Plants) Investigate the way in which water is transported within plants.	Year 3 Plants unit (Year 2021 -2022)
Year 3 Rocks N.C Statements	Possible links National Curriculum Statements	When will it be covered?
Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Recognise that soils are made from rocks and organic matter.	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. (Y5 Materials) Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. (Y5 Materials)	Y5 Materials topic (Year 2022 – 2023)
Describe in simple terms how fossils are formed when things that have lived are trapped within rock.	Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. (Y6 Evolution) Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. (Y6 Evolution)	Y6 Evolution topic (Year 2023-2024)