

St Joseph's SCIENCE Long-Term Plan 2024-2025

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p>Identify that animals are living things Know the difference between a living and non-living thing.</p> <p>Understand the importance of staying healthy Describe a balanced diet Know the difference between healthy and unhealthy Food.</p> <p>Explain how I use my arms, legs, and chest Give examples to explain how I use my arms, legs, and chest Label parts of my body on a diagram.</p> <p>Explain how my hands can be used Explain how my feet can be used Understand the different body part.</p>	<p>Explain why birds need to live in a nest Know the types of food birds feed on Identify birds based on their features.</p> <p>Group objects based on whether they sink or float Explain what sink means Explain what float means.</p> <p>Explain what happens to chocolate when it starts to melt Explain what happens to chocolate when it starts to become hard Follow instructions.</p> <p>Describe and explain how we use our eyes and nose to see and smell Know which senses our eyes and nose are used for Know what the eyes and nose are and where they are.</p>	<p>Understand which vegetables grow over ground or underground Name several types of vegetables Identify three different types of vegetables.</p> <p>Use a mould to make an ice cube Explain how ice is formed Describe the best conditions for melting ice.</p> <p>Explain how ears work Explain the functions of your mouth Understand the functions of your hair.</p> <p>Understand how humans grow Describe changes in our own bodies List some ways we have changed from a baby.</p> <p>Explain what snow is</p>	<p>Identify if a fruit tastes bitter or sweet Use clues to identify a fruit Identify and describe a range of fruit</p> <p>Describe what happens when pushes and pulls oppose each other Suggest examples of pushes and pulls Identify if an action is a push or a pull</p> <p>Explain which material is the most absorbent Explain which material is good for different clothing Complete a simple test.</p> <p>Explain the life cycle of a plant Label the key features of a plant Understand where plants come from.</p> <p>Explain what a plant needs to live Understand a plant</p>	<p>Understand how far planets are from the Sun Describe what different planets are like Know there are other planets in our solar system</p> <p>Follow verbal instructions to make a mixture Describe the changes the batter mix goes through as it starts to cook.</p> <p>Explain what I need to do to build the perfect sandcastle Measure accurately to compare Understand how to make a mixture.</p> <p>Understand how to plan a journey Decide the most appropriate means of transport for each leg of the journey Name different types of vehicles.</p>	<p>Explain what some animals' habitats are like and what they need to survive in their habitat Describe an animal's habitat.</p> <p>Explain where eggs come from Understand stages of a chicken's life Name the parts of a chicken.</p> <p>Understand similarities and differences in human beings Describe ways in which you are unique to others Know the different features of your body.</p> <p>Identify key senses of the human body Describe what senses can help us to do Name which parts of</p>

		<p>Explain why a plant is a living thing and what it needs to live Describe the features of a living thing Know the difference between a living and a non-living thing</p> <p>Describe what clothes you need to wear in the rain Explain the differences between rain, ice and water.</p>	<p>Understand that snow melts when the weather gets warmer.</p>	<p>grows from a seed.</p>		<p>the body are linked by senses.</p>
<p>Year 1</p>	<p>Everyday Materials</p> <p>Identifying and naming different materials; describe physical properties, compare and group together materials based on their properties.</p>	<p>Animals Including Humans</p> <p>Identify, name, draw and label the basic parts of the human body and say which is associated with each sense.</p>	<p>Animals Including Humans</p> <p>Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals.</p>	<p>Plants</p> <p>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of common flowering plants, including trees</p>	<p>Seasonal changes</p> <p>Observe changes across the four seasons Spring/Summer/ Autumn / Winter</p> <p>observe and describe weather associated with the seasons and how the day length varies.</p>	<p>Study a scientist</p> <p>Edward Jenner – linked to DT – healthy eating</p> <p>STEM scientist of the week</p>
<p>Year 2</p>	<p>Plants (what plants need to grow, the functions of different</p>	<p>Animals Including Humans</p>	<p>Uses of different Materials (changing</p>	<p>Uses of different Materials (changing</p>	<p>Animals Including Humans</p>	<p>Plants and insects (what plants need to grow, the functions</p>

	parts of flowering plants) Living things and their habitat Explore a variety of habitats, including micro-habitats)	(needs for survival: food, exercise and hygiene)	shape and uses of materials)	shape and uses of materials)	(needs for survival: food, exercise and hygiene, Living things and their habitat	of different parts of flowering plants, parts of a minibeast, life cycles)
Year 3	Plants (different parts of a plant, what they need to survive, transportation of water, life cycle of flowering plants)	Animals Including Humans (nutrition, skeleton and muscles)	Forces and Magnets (magnetic materials, attracting and repelling)	Rocks (compare and group different fossils and soils)	Light (reflection and shadows)	
Year 4	States of matter (changes of state, evaporation and condensation)	Sound (vibration, pitch and volume)	Animals Including Humans (digestive system, teeth and food chains)	Living things and their habitats (classification)	Living things and their habitats (changing environments)	Electricity (simple circuits and conductors)
Year 5	Forces (gravity, air resistance, water resistance, friction)	Properties and changes of materials (properties of materials, dissolving, separating materials, reversible and irreversible changes)	Living Things and Their Habitats (life cycles and reproduction in plants)	Earth and Space (Earth, Sun and Moon, the solar system)	Earth and Space (Earth, Sun and Moon, the solar system)	Animals including humans (development from birth to old age, reproduction in humans)
Year 6	Animals Including Humans (circulatory system, diet and exercise, healthy living)	Electricity (voltage and power in circuits)	Living Things and Their Habitats (classification)	Light (how light travels, how we see, shadows)	Evolution and inheritance (how living things have changed over time, fossils, dinosaurs, adaptation to environment)	Animals Including Humans