

St Joseph's RC Primary





EYFS		<u>Biology</u>
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	Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name
	different sources of food.
Year 4	Recognise that living things can be grouped in a variety of ways
1 2 2 2 2	 Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment
	Recognise that environments can change and that this can sometimes pose dangers to living things.
Year 5	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird
	Describe the life process of reproduction in some plants and animals
Year 6	Describe how living things are classified into broad groups according to common observable characteristics and based on
	similarities and differences, including micro-organisms, plants and animals
	Give reasons for classifying plants and animals based on specific characteristics
	Plants
EYFS	Explore nature in Autumn within our local area
	Observe Spring flowers growing in our garden
	Explore the parts of a plant
Year 1	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees
	 Identify and describe the basic structure of a variety of common flowering plants, including trees
Year 2	Observe and describe how seeds and bulbs grow into mature plants
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Year 3	
rear 3	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers Total and the approximate and a facilities and provide (air likely provide provide forms and beauty) and beauty from the control of the con
I	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.
	from plant to plant
	Investigate the way in which water is transported within plants Timber the part that flowers play in the life goals of flowering playing playing the life goals of flowering playing playi
	Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal Figure 1.1.
V0	Evolution 5 to 1 to
Year 6	 Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
	Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
	Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

	<u>Chemistry</u>
	Materials Materi
EYFS	Explore natural materials in the sand and water tray. Distinguish differences in textures of items collected during nature walks.
	Describe differences in materials and investigate waterproof materials
Year 1	Distinguish between an object and the material from which it is made
	 Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
	Describe the simple physical properties of a variety of everyday materials
	Compare and group together a variety of everyday materials on the basis of their simple physical properties
Year 2	 Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for different uses
	Compare how things move on different surfaces
	Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
Year 5	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
	Know that some materials will dissolve in liquid to form a solution
	 Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating
	 Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic
	Demonstrate that dissolving, mixing and changes of state are reversible changes
	 Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda
	Rocks
Year 3	Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties
	 Describe in simple terms how fossils are formed when things that have lived are trapped within rock
	Recognise that soils are made from rocks and organic matter
	States of Matter
EYFS	Investigate melting and freezing
Year 4	Compare and group materials together, according to whether they are solids, liquids or gases
	Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this
	happens in degrees Celsius (°C)
	Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

<u>Physics</u>	
	Light
EYFS	Understand the need to stay safe in the sun
Year 3	 Recognise that they need light in order to see things and that dark is the absence of light
	Notice that light is reflected from surfaces
	 Recognise that light from the sun can be dangerous and that there are ways to protect their eyes
	 Recognise that shadows are formed when the light from a light source is blocked by a solid object
	Find patterns in the way that the size of shadows change.
Year 6	Recognise that light appears to travel in straight lines
	 Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
	 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
	 Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
	Forces
EYFS	Explore the forces of push and pull using ramps and difference surfaces
Year 3	Compare how things move on different surfaces
	Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance
	Observe how magnets attract or repel each other and attract some materials and not others
	 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 2 poles and predict whether 2 magnets will attract or repel each other, depending on which poles are
	facing.
Year 5	Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling
	object
	 Identify the effects of air resistance, water resistance and friction, that act between moving surfaces
	 Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect
	Electricity
Year 4	Identify common appliances that run on electricity
	Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
	Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a
	battery
	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
Year 6	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit
	Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers
	and the on/off position of switches

	Use recognised symbols when representing a simple circuit in a diagram	
	Seasonal Changes	
EYFS	Explore natural changes in our outdoor area throughout each season.	
	Understand how to dress appropriately for each season	
	Recognise signs of Spring and take part in the Big Schools' Birdwatch	
Year 1	Observe changes across the 4 seasons	
	Observe and describe weather associated with the seasons and how day length varies	
	Sound	
Year 4	Identify how sounds are made, associating some of them with something vibrating	
	Recognise that vibrations from sounds travel through a medium to the ear	
	Find patterns between the pitch of a sound and features of the object that produced it	
	Find patterns between the volume of a sound and the strength of the vibrations that produced it.	
	Recognise that sounds get fainter as the distance from the sound source increases	
	Earth and Space	
Year 5	Describe the movement of the Earth, and other planets, relative to the Sun in the solar system	
	Describe the movement of the Moon relative to the Earth	
	Describe the Sun, Earth and Moon as approximately spherical bodies	
	Use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky	



St Joseph's RC Primary





Working Scientifically	
<u>EYFS</u>	Ask questions to find out more information
	Make comparisons between objects relating to size, length, weight and capacity
	Describe what they found out, observed and discovered
	Present their results in a short sentence
Key Stage	Ask simple questions and recognising that they can be answered in different ways
1 1	Observe closely, using simple equipment
	Perform simple tests
	Identify and classify
	Use their observations and ideas to suggest answers to questions
	Gathering and recording data to help in answering questions
Lower Key	Ask relevant questions and use different types of scientific enquiries to answer them
Stage 2	Set up simple practical enquiries, comparative and fair tests
	Make systematic and careful observations and, where appropriate, take accurate measurements using standard units using a range
	of equipment, including thermometers and data loggers
	Gather, record, classify and present data in a variety of ways to help in answering questions
	 Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
	 Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
	 Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
	Identify differences, similarities or changes related to simple scientific ideas and processes
	Use straightforward scientific evidence to answer questions or to support their findings
Upper Key	 Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
Stage 2	Take measurements, using a range of scientific equipment, with increasing accuracy and precision
	 Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line
	graphs
	Use test results to make predictions to set up further comparative and fair tests
	Use simple models to describe scientific ideas
	Report and present findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written
	forms such as displays and other presentations

Identify scientific evidence that has been used to support or refute ideas or arguments