

St Ignatius Catholic Primary School

SCIENCE CURRICULUM MAP

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
RECEPTION	Understanding the World (EYFS)						
	Name some parts of the body and the five senses. Identify and sort recyclable materials.	.Explore how to make a simple circuit. Talk about day and night.	Learn about water freezing into ice and how this is a reversible change. Talk about how to care for our common home.	Name and sort animals according to their features. Name the parts of plants and trees.	Explore life cycles of different animals. Plant a seed and explore what it needs to grow.	Explore materials that float and sink. Explore light and shadows, talking about how we can measure the time using the sun.	
YEAR 1	Animals Including Humans Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals and classify them as carnivores, herbivores and omnivores. Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Seasonal changes Seasons and weather Autumn and winter	Everyday materials Explore different types of materials, focusing on their everyday uses. Understand the properties of common materials, including their strength and water absorption.	Plants Name a variety of common wild and garden plants, including deciduous and evergreen trees. Learn the basic parts of a flowering plant and explore the differences between things that are living, non-living and dead.	Plants Name a variety of common wild and garden plants, including deciduous and evergreen trees. Learn the basic parts of a flowering plant and explore the differences between things that are living, non-living and dead. Seasons re-visited. Spring and summer.	Animals Including Humans Animal kingdom and species. Animals in their habitat.	
	Animals Including Humans Explore what animals need to survive and stay healthy, focusing on the basic needs of water, air and food. Recognise that animals have offspring that grow into adults. Understand the meaning and importance of a healthy lifestyle.	Living things and their habitats Explore the differences between things that are living, dead and never been alive. Identify that most living things live in habitats to which they are suited and how their habitats provide for the basic needs of different kinds of animals and plants. Identify and name a variety of plants and animals in their habitats. Describe how animals obtain their food from plants and other animals in a food chain,	Uses of everyday materials Investigate the properties of a range of materials, focusing on how easily they can change shape through squashing, bending, twisting and stretching. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	Plants Observe how plants grow. Investigate the conditions for seed germination, and learn through practical activities that plants need water, light and suitable temperatures to grow and stay healthy.	Microhabitats Building on their knowledge of habitats, the children explore how microhabitats meet the needs of minibeasts.	Making connections: Plant-based materials Identifying ways to reduce, reuse and recycle. Use their knowledge of material properties to invent creative uses for old objects, discover that some natural materials come from plants, explore paper-making processes, conduct tests to select suitable materials for homemade plant pots and gather natural materials for decoration.	
YEAR 3	Animals Including Humans Develop an understanding of the need for humans and animals to eat a balance diet of different food types for them to move and grow. Study the human skeleton and understand what the purpose of having a skeleton is.	Animals including Humans .Develop an understanding of the need for humans and animals to eat a balance diet of different food types for them to move and grow. Study the human skeleton and understand what the purpose of having a skeleton is.	Rocks Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties	Forces and Magnets Identify a range of simple forces, focusing on pulling and pushing forces, including friction. Compare how different objects move on different surfaces. Understand that some forces need contact between two objects, but magnetic forces can act at a distance. Identify some magnetic materials and describe the simple effects of magnets.	Light Investigate the properties, production, and interactions of light. Explore how human eyes perceive the world and observe the formation of different colors through varying light wavelengths.	Plants Identify and describe the functions of different parts of flowering plants and explore the requirements of plants for life and growth. Explore the part that flowers play in the life cycle of flowering plants.	
	Animals Including Humans Explore the digestive system, identify teeth types and functions, investigate tooth decay, and construct food chains to understand the relationships between producers, predators, and prey.	States of Matter Explore States of Matter, distinguishing properties of solids, liquids, and gases. Understand the impact of temperature on state changes and the water cycle. Investigate living things, identifying animals in habitats and understanding their survival	Living Things and Their Habitats Group a range of different animals based on their physical characteristics and use classification keys to identify species. Recognise different habitats and the effect that habitat change can have on animal species.	Sound Explore the creation of sounds by identifying how vibrations travel through a medium to reach the ear. Recognise patterns linking sound volume to the strength of vibrations. Understand that sounds diminish as the distance from the source increases.	Electricity Identify common electrical appliances and build a simple series electrical circuit. Name and recognize its basic components, including cells, wires, bulbs, switches, and buzzers.	Electricity Identify common electrical appliances and build a simple series electrical circuit. Name and recognize its basic components, including cells, wires, bulbs, switches, and buzzers.	
YEAR 5	Earth and Space Explore planets and investigate the Earth's and other planets' movements relative to the sun in the solar system.	Forces Explore forces by identifying the effects of air resistance, water resistance, and friction. Engage in investigations and experiments to test these forces' impacts.	Forces Explore forces by identifying the effects of air resistance, water resistance, and friction. Engage in investigations and experiments to test these forces' impacts.	Properties and Changes of Materials Compare and group everyday materials based on their properties this term. Utilize knowledge of solids, liquids, and gases to explore methods for separating mixtures.		Living Things and Their Habitats Describe differences in life cycles of different animals and describe process of reproduction in some animals and plants.	Animals Including Humans Examine changes during human growth, researching gestation periods in animals for comparison. Draw a timeline depicting the stages in human growth and development.
	Living things and their habitats Explore Earth's diverse biomes, examining climate, relief, flora, and fauna. Investigate ecosystem development with complex food chains, emphasizing the relationships between consumers and producers.	Electricity Explore the concept of electric current and its widespread use in the modern world. Construct electric circuits, investigating the various effects achieved by modifying circuits and components.	Light Explore the nature of light, its production, and interactions with the world. Understand how our eyes perceive the environment and how various light wavelengths translate into different colours.	Animals Including Humans Describe the function of major organ systems in the human body, including the reproductive system and circulatory systems. Understand the effect that foreign substances such as drugs can have on the operation of the body and recognise the positive impact of healthy eating and	Animals Including Humans Describe the function of major organ systems in the human body, including the reproductive system and circulatory systems. Understand the effect that foreign substances such as drugs can have on the operation of the body and recognise the positive impact of healthy eating and		Evolution Utilise various scientific inquiry methods to explore the evolution of life on Earth. Investigate the evolutionary processes shaping humans and animals. Examine fossil records to understand early human life.