




Holy Family Catholic Primary School
Science End Points - Termly

Science Intent 
 I am a Scientist!
 I confidently explore and discover what is around me, so that I have a deeper understanding of the world I live in.

INTENT		At Holy Family, children are encouraged to develop a greater understanding and knowledge of the world around them. Developing inquisitive children who are excited about investigating with curiosity.			
Year groups	Autumn 1	Autumn 2	Spring	Summer 1	Summer 2
Year 1	Everyday Materials <ul style="list-style-type: none"> Children will learn to identify basic materials by sight. Children will know materials that different objects are made from. Children will know the properties of different materials. Children will know other properties that materials can have. Children will know the materials we should use to make objects. Children will know how we can use properties to group, compare and sort objects. 	Autumn and Winter <ul style="list-style-type: none"> Children will know what the four seasons are. Children will learn about what the weather is like in autumn. Children will know what happens to animals and plants in autumn. Children will know how the weather changes from autumn to winter. Children will know what the weather is like in winter. Children will know what happens to animals in winter. 	Amazing Animals <ul style="list-style-type: none"> Children will know names and descriptions of animals. Children will know how to group animals into mammals, birds and fish. Children will know how to group animals into reptiles and amphibians. Children will know what mammals have in common. Children will know how we can identify different birds. Children will know how we can compare different fish. Children will know how to compare animals from different categories. Children will know what animals eat. Children will know what makes a good and happy pet. Children will know the basic parts of the human body and what they do. 	Spring and Summer <ul style="list-style-type: none"> Children will know how to describe the four seasons. Children will know how the weather changes from winter to spring. Children will know what happens to plants and animals in spring. Children will know how the weather changes from spring to summer. Children will know what happens to plants and animals in summer. Children will know how the changing seasons affect humans. 	Plants <ul style="list-style-type: none"> Children will know what a plant is. Children will know the main parts of the plant. Children will know common garden plants. Children will know common wild plants. Children will know the main parts of a tree. Children will know why plants are important.

Science End Points - Termly

<p>Year 2</p>	<p>Animals: Need for Survival</p> <ul style="list-style-type: none"> • Children will know what animals need to survive. • Children will know how animals change as they grow up. • Children will know why exercise is important. • Children will know what a balanced diet is. • Children will know if they eat a balanced diet. • Children will know what hygiene is and why it is important. 	<p>Uses of Materials</p> <ul style="list-style-type: none"> • Children will know how we identify the materials different objects are made from. • Children will learn how to identify how materials are used in our local area. • Children will know how to compare the suitability of different materials. • Children will know how the shapes of objects made from some materials can be changed. • Children will know how we can help to stop plastic pollution. • Children will know how new materials are discovered. 	<p>Habitats</p> <ul style="list-style-type: none"> • Children will know if something is alive. • Children will know how you can tell if something is alive. • Children will know where plants live. • Children will know what animals we can find. • Children will know where worms live. • Children will know about the habitats in the Arctic and Sahara. • Children will know who eats who. • Children will know about longer food chains. • Children will explore what we can see in our habitat. • Children will share new knowledge about worms. 	<p>Plants</p> <ul style="list-style-type: none"> • Children will know what a seed is. • Children will know what is inside a seed. • Children will know what a seed needs to germinate. • Children will know what plants need to grow and survive. • Children will know the life cycle of a plant. • Children will know what seeds need to germinate and grow. 	<p>Protecting our environment</p> <ul style="list-style-type: none"> • Children will know the dangers to the local environment and the animals within it. • Children will know why recycling is important. • Children will know how to save water. • Children will know how to be energy efficient with electricity. • Children will know why trees are important. • Children will know the difference we can make at school and at home.
<p>Year 3</p>	<p>Skeletons and muscles</p> <ul style="list-style-type: none"> • Children will know what the human skeleton looks like. • Children will know what the function of the human skeleton is. • Children will know how bones and muscles work together. • Children will know how skeletons are different in animals. • Children will know what nutrition is and 	<p>Rocks and fossils</p> <ul style="list-style-type: none"> • Children will know what rocks are. • Children will know the different types of rock. • Children will know some of the properties of different types of rock. • Children will know how we can use different types of rock. • Children will know what fossils are and how they are formed. • Children will know what soil is. 	<p>Light and shadows</p> <ul style="list-style-type: none"> • Children will know what a light source is. • Children will know how we can protect ourselves from the sun. • Children will know how light travels. • Children will know if light travels through all materials. • Children will know how shadows are formed. • Children will know how we can vary the size and position of shadows. • Children will know how we can use shadows to tell a story. • Children will know what types of materials reflect light. • Children will know what mirrors do to light. • Children will know how we can see round corners. 	<p>Plants</p> <ul style="list-style-type: none"> • Children will learn what a plant needs to grow. • Children will know why plants have roots. • Children will know why plants have stems. • Children will know why plants have leaves. • Children will know the parts of a flower. • Children will know the life cycle of a flowering plant. 	<p>Forces and magnets</p> <ul style="list-style-type: none"> • Children will know what forces are. • Children will know how objects move on different surfaces. • Children will know what a magnet is and how it behaves. • Children will investigate which materials are magnetic. • Children will investigate the varying strength of different magnets. • Children will learn how magnets are used in real-life situations.

Science End Points - Termly

	<p>where it comes from.</p> <ul style="list-style-type: none"> Children will know how different animals get the nutrition they need. 				
Year 4	<p>Teeth and digestion</p> <ul style="list-style-type: none"> Children will know what human teeth look like. Children will know what can happen if we do not look after our teeth. Children will know if eating and drinking can damage our teeth. Children will investigate if all animals have the same teeth. Children will know what makes up our digestive system. Children will know how our digestive system works. 	<p>States of matter</p> <ul style="list-style-type: none"> Children will know what the states of matter are. Children will know what happens when you freeze liquids. Children will know what happens when you heat solids. Children will know the melting points of different solids. Children will know what evaporation is. Children will know what the water cycle is. 	<p>Classification and environments</p> <ul style="list-style-type: none"> Children will know what a living thing is. Children will know what a habitat is. Children will know what food chains and food webs are. Children will know what a vertebrate is. Children will know what an invertebrate is. Children will know what classification keys are. Children will know how we use classification keys. Children will know how environments can change. Children will know what climate change is and how we can prevent environmental change. Children will know how we are affecting our local environment. 	<p>Electricity</p> <ul style="list-style-type: none"> Children will know what electricity is and how we use it. Children will know how to make an electrical circuit. Children will know how to make bulbs light up and turn off. Children will know what changes the brightness of a bulb in a circuit. Children will know what materials are conductors and insulators of electricity. Children will know to design a circuit. 	<p>Sound</p> <ul style="list-style-type: none"> Children will know what sound is and how it is made. Children will know how sound travels. Children will know how we hear. Children will know what changes the volume of a sound. Children will know what changes the pitch of a sound. Children will know how to make their own musical instrument.
Year 5	<p>Earth and space</p> <ul style="list-style-type: none"> Children will know what the Sun and Earth are. Children will know what the Solar System is. Children will know patterns in the Solar System. Children will know why we have day and night. 	<p>Forces</p> <ul style="list-style-type: none"> Children will know what forces are. Children will know what gravity is. Children will know what friction is. Children will know what air resistance is. Children will know what water resistance is. 	<p>Properties and changes of materials</p> <ul style="list-style-type: none"> Children will learn the properties of materials. Children will know what a conductor is. Children will know how materials respond to magnets. Children will investigate which materials are soluble. Children will learn about the factors with affect dissolving. Children will investigate separating a mixture using filtration. Children will investigate how to separate a mixture using sieving. Children will know which separation methods to use. 	<p>Life cycles</p> <ul style="list-style-type: none"> Children will know what a life cycle is. Children know how the life cycles of birds and amphibians are different to mammals. Children will know the main stages in the life cycle of insects. Children will know what pollination is in the life cycle of a flowering plant. 	<p>Getting older</p> <ul style="list-style-type: none"> Children will know how humans change as they grow. Children will know how babies and children develop. Children will know how gestation is different for different mammals. Children will know what puberty is.

Science End Points - Termly

	<ul style="list-style-type: none"> • Children will know the phases of the Moon. • Children will know how the theories of the Earth and space have changed over time 	<ul style="list-style-type: none"> • Children will know what simple machines can do to forces. 	<ul style="list-style-type: none"> • Children will know what are reversible and irreversible changes. • Children will know if something is reversible or irreversible. 	<ul style="list-style-type: none"> • Children will know what happens to seeds in the life cycle of flowering plants. • Children will know who has contributed to understanding life cycles. 	<ul style="list-style-type: none"> • Children will know what adolescence is. • Children will know how adults grow into old age.
<p>Year 6</p>	<p>Light and perception</p> <ul style="list-style-type: none"> • Children will know how we see. • Children will know what shadows tell us about light. • Children will know what reflection is. • Children will know what refraction is. • Children will know the colour of light. • Children will know what light pollution is. 	<p>Classification</p> <ul style="list-style-type: none"> • Children will know how we can arrange organisms into groups. • Children will know what classification is. • Children will know how we can classify vertebrates. • Children will know how we can classify invertebrates. • Children will know how we can classify plants. • Children will know what microorganisms are. 	<p>Evolution and inheritance</p> <ul style="list-style-type: none"> • Children will know what fossils can tell us. • Children will know what variation is. • Children will know what inheritance is. • Children will know what an adaption is. • Children will know why animals have adaptations. • Children will know what natural selection is. • Children will know what the theory of evolution is. • Children will know what evolution is. • Children will know why animals become extinct. • Children will explore how we can save endangered animals. 	<p>Electricity and circuits</p> <ul style="list-style-type: none"> • Children will know how we use electricity. • Children will know where we get electricity from. • Children will know what a series circuit is. • Children will know how we use circuit diagrams to represent circuits. • Children will know how we can change circuits. • Children will know how to design a child's night light. 	<p>Circulation and lifestyle</p> <ul style="list-style-type: none"> • Children will know what the circulatory system is. • Children will know what the heart does. • Children will know what blood is and why it is important. • Children will know what blood vessels are and why they are important. • Children will investigate how exercise affects the body. • Children will know how drugs affect the body.