



	Term 1	Term 2	Term 3	Term 4	Terms 5 and 6
Theme	Marvellous Mablethorpe	Extreme Weather	Step back in Time	Take one picture	Little People Big Dreams
Year 1	<p>Seasonal changes <u>Humans - senses</u> The children will learn about their bodies and the five senses. They will carry out investigations into the five senses and describe them using the appropriate vocabulary.</p>	<p>Seasonal changes <u>Animals</u> The children will learn about different animals and about what animals need to survive. The children will name and discuss mammals, birds, reptiles and fish.</p>	<p>Seasonal changes <u>Materials</u> The children will learn about different materials. They will name different materials and describe them. They will investigate the different materials explaining the best use for them.</p>	<p>Seasonal Changes <u>Plants</u> The children will learn the names of some plants and their features. The children will identify the similarities and differences between different plants, especially those found in the garden. The children will also learn about trees.</p>	<p>Seasonal changes <u>Animals</u> (As for T2 link into topics and visits where appropriate)</p>
Year 1	<p>Seasonal changes - taught across the year when appropriate. The children will learn about the seasons appropriate to the time of year. They will learn how many seasons are there in the UK and about the weather for each season. The children will also learn about the plants in each season, how animals behave (hibernation) and how the seasons affect us.</p>				
Year 2	<p><u>Animals inc Humans (Growth and Survival)</u> The children will find out about animals and match the adults to their offspring. They will learn about the changes to humans as they get older. They will learn about what animals need to survive and how an animal would become extinct. The children will also learn about balanced diets and</p>	<p><u>Habitats</u> The children will learn about different habitats and identify living things. The children will match the plants and animals to the habitats. The children will also learn about where the animals get their food from and construct foodchains.</p>	<p><u>Materials</u> The children will build on their previous knowledge and will name a variety of materials and their uses. They will learn about natural and manmade materials. They will investigate different materials and their uses. They will also research Dunlop, McIntosh and McAdam.</p>	<p><u>Plants</u> The children will learn about seeds and what plants can grow from seeds. They will also learn about seed dispersal ask questions that can be carried out scientifically. The children will also discuss their results and use scientific vocabulary.</p>	<p><u>Habitats (As previous, link to topic where appropriate)</u> The children will learn about the different habitats for animals in different parts of the world.</p>



	how to keep their bodies healthy.				
Year 3/ 4	<u>Light and Shadow</u> Children will recognise that we need light in order to see. They will explore the sun as a light source and identify the difference between night and day. They will investigate what shadows are and why they are formed, and how they behave. They will investigate how the size of shadows change throughout the day. They will explore how light is reflected from surfaces.	<u>Forces and Magnets</u> The children will explore what forces are and notice that some forces need contact between two objects. They will compare how things move on different surfaces. They will explore how magnetic forces work and identify magnetic materials. They will investigate uses for magnets.	<u>Rocks and Soils</u> Children will identify naturally-occurring rocks and explore their uses. They will group rocks according to their characteristics. They will plan, carry out and evaluate experiments to compare rocks. They will identify rocks that are used for particular purposes. They will explore soil and how it is formed. They will explore what fossils are and how they are formed, and will identify fossilised remains.	<u>Plants</u> Children will identify and describe the functions of the roots and the leaves of flowering plants. They will investigate the way in which water is transported within plants. They will explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. They will explore some of the ways in which flowering plants disperse their seeds. They will understand the structure of seeds and their importance as a food source.	<u>Animals including Humans - nutrition, skeletons and muscles</u> Children will identify that humans get the nutrition they need from what they eat, and that a balance diet is needed in order to stay healthy. They will investigate which foods different animals eat. They will carry out an investigation to find out what pets eat. They will explore human and animal skeletons, and find out about how the skeleton support and protects the body. They will investigate how invertebrates are supported. They will find out what muscles are and how skeletal muscle help us to move.



Year 5/6	Earth and Space This unit is the only Astronomy related science unit in the primary science curriculum. The aim is to give children a basic overview of Earth and its place in our Solar System. At the end of this unit children should be able to: <ul style="list-style-type: none">• Describe a sphere.• Identify scientific evidence with support.• Name the planets in the solar system• Explain how the planets orbit the Sun• Explain how night and day occur.• Make predictions about night and day in different places on Earth.• Report and present findings from enquiries• Explain that the Moon orbits the Earth not the Sun.	Forces This unit builds on the child's prior knowledge and they will find out about types of forces such as gravity, friction, water resistance and air resistance. Children will also learn about the use of mechanisms such as levers, gears and pulleys. The children will identify forces and find out about Isaac Newton and his discoveries about gravity, The children will look for patterns and links between the mass and weight of objects, using newton meters to measure the force of gravity. They will also work collaboratively to investigate air and water resistance and work in a hands-on way to explore friction. During some of the practical science work, the children will discuss how variables other than the one being tested can be kept the same to help make a test fair.	Changing Materials This unit builds on the prior knowledge of materials and will teach children about different materials, their uses and their properties, as well as dissolving, separating mixtures and irreversible changes. Children will sort and classify objects according to their properties. They will explore the properties of materials to find the most suitable material for different purposes. The children will work scientifically and collaboratively to investigate the best thermal insulators, to making predictions and forming conclusions. They will have the opportunity to work in a hands-on way to explore dissolving, identifying the different variables in their own investigations. They will find out about different ways to separate mixtures of materials, using filtering, sieving and evaporating. Finally, they will learn about irreversible changes, and participate in exciting investigations.	Living things - Life cycles This unit builds on the child's prior knowledge of plants and animals and will teach your child about the process of reproduction and the life cycles of plants, mammals, amphibians, insects and birds. The children will explore reproduction in different plants, including different methods of pollination and asexual reproduction. They will learn about different types of mammals and their different life cycles. The children will have the opportunity to find out about Jane Goodall and her work with the now-endangered chimpanzees in Africa. They will explore metamorphosis in insects and amphibians, comparing their life cycles. Finally, the children will explore the life cycles of birds, comparing the life cycles of different living things.	Animals in Humans Reproduction. This unit focuses on the changes that human beings experience as they develop to old age. It tackles some sensitive subjects including puberty and death. Children will learn about the life cycle of a human being. They will investigate the development of babies and compare the gestation period of humans and other animals. They will learn about the changes experienced during puberty and why these occur. They will learn about the changes to the body as humans get older, as well as comparing the life expectancy of different animals.
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