



The Meadow Community Primary School

Science Overview 2021/2022

<u>Year</u>	<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
1	<p>My Body We will be identifying and naming the human body parts. We will be using our sense to compare taste, sound and texture.</p> <p>Everyday materials We will be identifying and exploring everyday materials such as wood, plastic, glass and metal. We be exploring their properties and finding out why different materials are used for different objects.</p>	<p>Seasonal changes We are going to be observing how plants change over the seasons. For example, leaves falling off the trees.</p> <p>Finding out about plants We will be identifying the different parts of a plant and exploring their function. We will also be looking at different types of plants.</p>	<p>Finding out about animals We will be exploring the different types of animals (mammals, birds, fish, amphibians and reptiles) and comparing them.</p> <p>Scientific discovery We are learning to use observations and ideas to suggest answers to questions. We are also learning to gather and record data to help in answering questions</p>
2	<p>Living in habitats Identifying global and local habitats and what lives in them. Understanding life processes and things necessary for life.</p> <p>Exploring everyday materials Investigating the properties of materials. How they can be identified and used.</p>	<p>Growth and survival Investigating what things plants and animals need to survive and thrive.</p> <p>Growing plants Investigating what things, a plant needs to grow healthily. Identifying and naming the parts of a plant.</p>	<p>Super scientists/ Staying healthy Looking at a variety of famous Scientists and their contributions to the world of Science and everyday life.</p>
3	<p>Health and movement Learn how animals, including humans, need specific nutrition to help them move and grow, and how humans and some other animals have skeletons and muscles to help their bodies move.</p> <p>Rocks, fossils and soils Identifying and classifying different kinds of rocks and what they can be used for, exploring a variety of soils and finding out how it is formed and discovering the fascinating world of fossils!</p>	<p>Rocks, fossils and soils - continued</p> <p>How plants grow Identify the functions of the different parts of a plant, investigate what plants need in order to grow well and explore how plants reproduce.</p>	<p>Forces and magnets Through practical enquiry and scientific research children will understand what forces are and will compare how things move on different surfaces. They will explore how magnetic forces work, identify magnetic materials and investigate uses for magnets.</p> <p>Light and Shadows Understand that we need light in order to see, explore the Sun as a light source, identify the difference between night and day and explore how light is reflected from surfaces. Investigate what shadows are, why they are formed and how they behave as well as how the size of shadows change throughout the day.</p>
4	<p>Eating and Digestion - The digestive system in human and animals and the functions of teeth. Herbivores, carnivores and omnivores in the context of teeth, digestion and the food chain.</p>	<p>States of Matter The differences between solids, liquids and gases, and how different materials can change state. Learning about the processes of evaporation and</p>	<p>Changing Sound Exploring what sound is and how it is made, investigating how sound travels, how it can be blocked, how different pitches can be attained.</p>

	<p>Circuits and Conductors Understanding how circuits work, the differences between mains and battery-powered electricity, how to make a switch and which materials are conductors and which are insulators.</p>	<p>condensation, and the water cycle.</p>	<p>Living in environments Identifying a range of British plants and animals, and how to classify organisms, including the use of classification keys. Learning why organisms live in different habitats and the impact, both positive and negative, that humans can have on environments.</p>
5	<p>Earth and space Children will use evidence to present an argument about the shape of the earth; explain the movements of the Earth, Moon and Sun; investigate night and day; use data to explain what happens to the Sun during the year; show the different phases of the Moon; name and describe features of the planets in our solar system and put them in order.</p> <p>Changes and reproduction Children will describe the stages of human development; compare gestation periods of humans and other animals; recognise stages of development in childhood; understand the changes that occur and how to stay fit and healthy during puberty and explore the changes that occur from adulthood to old age.</p>	<p>Properties and changes of materials Children will explore what happens to a material when they add water; how some materials can be changed back to their original state; describe what happens to make an irreversible change; know the difference between a reversible and irreversible change when materials are heated or cooled.</p> <p>Life cycles Children will label the parts of a flowering plant and talk about their functions; explain the process of cloning; describe the sexual process of reproduction in animals; compare the life cycles of different animals; compare how different animals reproduce and grow and find out about the work of naturalists.</p>	<p>Forces in action Children will find out about the life and discoveries of Sir Isaac Newton; investigate friction; identify and explain the effects of air resistance; explore the effects of water resistance on an object and explore pulleys, leavers cogs.</p>
6	<p>Healthy Bodies How lifestyle choices impact the different systems of the body.</p> <p>Evolution and Inheritance Learn about the theories of Charles Darwin and how natural selection leads to the theory of evolution and adaptation.</p>	<p>Seeing Light Children learn about the human eye and how it is used to see light. They investigate how light can be split and the spectrum it is made up from.</p> <p>Classifying Organisms Children learn about the different systems that are used to classify organisms and how this classification enables scientists to distinguish similarities and differences.</p>	<p>Changing Circuits Children learn about the different types of circuits that exist and the correct scientific notation to draw circuit diagrams.</p> <p>Influential scientists Children learn about a range of different scientists and the impact they have had on how thinking has changed throughout time.</p>