

	<p>Subject Overview: Science Across all terms and all year groups, children will be working scientifically to find out about the science topic they are studying. This will include: asking questions; making observations; conducting investigations; collecting results; making comparisons; presenting findings.</p>					
Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Plants Children will use the local environment to explore and answer questions about plants growing in their habitat.</p> <p>Children will observe and talk about changes in the weather and the seasons, focussing on changes from summer to autumn</p>	<p>Plants and seasonal changes Children will sow seeds and bulbs and then observe the growth of the flowers and vegetables that they have planted.</p> <p>Children will observe and talk about changes in the weather and the seasons, focussing on changes from autumn to winter</p>	<p>Materials Children will explore and name everyday materials so that they become familiar with the names and properties of materials including for example: brick, paper, fabrics, elastic and foil.</p>	<p>Materials and seasonal changes Children will discuss, raise and answer questions about everyday materials so that they become familiar with the properties of materials.</p> <p>Children will observe and talk about changes in the weather and the seasons, focussing on changes from winter to spring.</p>	<p>Animals Children will learn how to take care of animals taken from their local environment and the need to return them safely after study.</p>	<p>Animals and seasonal changes Children will learn the common names of some fish, amphibians, reptiles, birds and mammals, including those that are kept as pets. Children will also learn the names of the main human body parts.</p> <p>Children will observe and talk about changes in the weather and the seasons, focussing on changes from spring to summer.</p>
Year 2	<p>Uses of everyday materials Children should identify and discuss the uses of different everyday materials so that they become familiar with how some materials are used for more than one thing. They will also explore how different materials are used for the same thing e.g. spoons can be made from plastic, wood, metal, but not normally from glass.</p>	<p>Uses of everyday materials Children will explore how the properties of materials make them suitable or unsuitable for a particular purpose. They will begin to think about unusual and creative uses for everyday materials.</p>	<p>Animals including humans Children will explore the basic needs of animals for survival, as well as the importance of exercise and nutrition for humans. They will also learn and sequence the animal growth stages from young to adult for example egg, chick, chicken. Growing into adults will also include reference to baby, toddler, child, teenager, adult.</p>	<p>Plants Children will use the local environment to observe how different plants grow. They will explore what conditions plants need for germination, growth and survival.</p>	<p>Plants Children will explore the processes of reproduction and growth in plants and make observations about how to help plants to grow well.</p>	<p>Living things and their habitats Children will explore the life processes that are common to all living things. They will also learn the terms 'habitat' and 'micro-habitat'. They will raise and answer questions about the local environment to help them learn about how a variety of plants and animals depend on each other within a habitat.</p>
Year 3	<p>Rocks Linked with work in geography, children will explore different kinds of rocks and soils and how they are used in the real world – for example in buildings and gravestones.</p>	<p>Forces and magnets Children will explore and observe similarities and differences in how different forces act to make things move. They should also explore the everyday uses of different.</p>	<p>Light Children will investigate what happens when light reflects off a mirror or other reflective surface to help them understand how light behaves.</p>	<p>Light They should look for and measure shadows to find out how they are formed and what might cause the shadows to change.</p>	<p>Plants Children will investigate the relationship between the structure and function of plants and understand that every part has a job to do.</p>	<p>Animals including humans Children will learn about the importance of nutrition. They will explore how different parts of the body have special functions.</p>

<p>Year 4</p>	<p>Animals including humans Children will be introduced to the main body parts associated with the digestive system, for example, mouth, tongue, teeth, oesophagus, stomach and small and large intestine. They will explore questions that help them to understand their special functions.</p>	<p>Sound Children will explore and identify the way sound is made through vibration. They will also find out how the pitch and volume of sounds can be changed in a variety of ways.</p>	<p>States of matter Children will observe and describe simple changes in materials for example water changing from solid to liquid to gas.</p>	<p>Living things and their habitats Children will explore possible ways of grouping a wide selection of living things. They could begin to put vertebrate and invertebrates animals into groups.</p>	<p>Electricity Children will construct and draw simple series circuits including different components such as bulbs, buzzers, motors and switches. They consider how their circuits could be used to create simple devices.</p>	<p>Applications of science Children will explore how science is used to solve real life problems. They will have opportunities to apply the science theory they have learned over the year.</p>
<p>Year 5</p>	<p>Earth and space Children will use models to explore how the Earth rotates to create day and night. They should understand the sun as the centre of our solar system, and that there are eight planets. Children could describe a moon as a celestial body that orbits a planet.</p>	<p>Forces Children should explore falling objects and raise questions about the effects of air resistance. They could explore the effects of friction on movement and find out how it slows or stops moving objects.</p>	<p>Living things and their habitats Children should observe life-cycle changes in a variety of living things, for example, plants and animals in the local environment. Children could find out about different types of reproduction in plants and animals.</p>	<p>Animals including humans Children will describe the stages in the growth and development of animals and humans. They may record these as a timeline for example.</p>	<p>Properties of materials Children should build on their understanding by exploring and comparing the properties of materials, including relating these to what they learnt about magnetism in year 3 and about electricity in year 4. They should explore reversible and irreversible changes and understand that melting and dissolving are different processes.</p>	<p>Applications of science Children will explore how science is used to solve real life problems. They will have opportunities to apply the science theory they have learned over the year.</p>
<p>Year 6</p>	<p>Evolution and inheritance Children will find out about how living things on earth have changed over time. They will be introduced to the idea that characteristics are passed from parents to their offspring, for instance by considering different breeds of dogs. They should begin to understand that variation in offspring over time can make animals more or less able to survive in particular environments.</p>	<p>Animals including humans Children should begin to understand how the circulatory system enables the body to function. They will learn how to keep their bodies healthy and how their bodies might be damaged – including how some drugs and other substances can be harmful to the human body.</p>	<p>Living things and their habitats Children will observe and classify animals into commonly found invertebrates and vertebrates. They should discuss reasons why living things are placed in one group and not another.</p>	<p>Light Children will build on the work on light in year 3, exploring the way that light behaves, including light sources, reflection and shadows. They should talk about what happens and make predictions.</p>	<p>Electricity Building on their work in year 4, children should construct simple series circuits, to help them to answer questions about what happens when they try different components, for example, switches, bulbs, buzzers and motors. They should learn how to represent a simple circuit in a diagram using recognised symbols.</p>	<p>Applications of science Children will explore how science is used to solve real life problems. They will have opportunities to apply the science theory they have learned over the year.</p>