

Stone Hill School
Curriculum Plan 2019/20
Science/Year 5

Intent:
The Science curriculum will develop and nurture pupils' curiosity by not only following the National Curriculum, but also following their questions and interests to hopefully develop a love, passion and appreciation for Science. Pupils will continue to develop their scientific knowledge through carefully planned exciting Science opportunities. Pupils will continue to develop an understanding of the process and methods of Science by providing a range of Scientific enquiries, investigations and questions to help them explore the world around them.
Pupils in Year 5 will explore the world around them and begin to raise their own questions. They will experience different types of scientific enquiries, including practical activities, and begin to recognise ways in which they might answer scientific questions. They will use simple features to compare objects, materials and living things and, with help, decide how to sort and group them, observe changes over time, and, with guidance, they will begin to notice patterns and relationships. Pupils will ask questions and use simple secondary sources to find answers. Pupils will use simple measurements and equipment (for example, hand lenses, egg timers) to gather data, carry out simple tests, record simple data, and talk about what they have found out and how they found it out. With help, pupils will record and communicate their findings in a range of ways and begin to use simple scientific language.

Term	Week/s	Topic/Theme	Learning Outcome/s Knowledge and Skills To know, to use, to apply...	Literacy Link Numeracy Link SMSC Link
Autumn 1	1 - 8	Seasonal Changes	<u>Knowledge Outcomes:</u> <ul style="list-style-type: none"> Name the seasons. Describe weather associated with some of the seasons. Begin to suggest the type of weather in each season. Have an understanding that day length varies with different seasons. <u>Skill Outcomes:</u> <ul style="list-style-type: none"> Observe some changes across the four seasons. Observe weather associated with the seasons. Comment on some basic changes in the seasons. 	Literacy: Speaking and listening Reporting Numeracy: Counting Measuring SMSC: Enjoy learning about the world around them
Autumn 2	1 - 7	Materials	<u>Knowledge Outcomes:</u> <ul style="list-style-type: none"> Name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. <u>Skill Outcomes:</u> <ul style="list-style-type: none"> Identify a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Begin to distinguish between an object and the material from which it is made. Compare a variety of simple everyday materials. Group together a variety of simple everyday materials. Identify the materials that an object is made from. 	Literacy: Speaking and listening Listing (writing) Numeracy: Counting Sorting Measuring SMSC: Enjoy learning about the world around them
Spring 1	1 - 6	Animals including humans – Human focus	<u>Knowledge Outcomes:</u> <ul style="list-style-type: none"> Identify some parts of the body. Name some parts of the body. Draw and label some basic parts of the human body. <u>Skill Outcomes:</u> <ul style="list-style-type: none"> Say which part of the body is associated with some of the senses. Sort living and non-living things. Begin to link the correct part of the human body to each sense. 	Literacy: Speaking and listening Writing Reading Numeracy: Counting Measurement SMSC: Enjoy learning about the world around them Co-operate with others
Spring 2	1 - 6	Plants	<u>Knowledge Outcomes:</u> <ul style="list-style-type: none"> Identify and name a variety of common, wild and garden plants. Describe the basic structure of a variety of common flowering plants. Name the petals, stem, leaf and root of a plant. 	Literacy: Speaking and listening Writing Reading Numeracy:

			<ul style="list-style-type: none"> Name the roots, trunk, branches and leaves of a tree. <p>Skill Outcomes:</p> <ul style="list-style-type: none"> Identify the basic structure of a variety of common flowering plants. 	<p>Time Recognising numbers Counting Measurement</p> <p>SMSC: Enjoy learning about the world around them Co-operate with others</p>
Summer 1	1 - 5	Animals including humans – Animals focus	<p>Knowledge Outcomes:</p> <ul style="list-style-type: none"> Identify and name a variety of common animals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe the structure of a variety of common animals (including pets). Name some animals by what they eat (carnivore, herbivore and omnivore). <p>Skill Outcomes:</p> <ul style="list-style-type: none"> Compare the structure of a variety of common animals (including pets). Classify some animals by what they eat (carnivore, herbivore and omnivore). 	<p>Literacy: Speaking and listening Writing Reading</p> <p>Numeracy: Counting Measurement</p> <p>SMSC: Enjoy learning about the world around them Cooperate with others</p>
Summer 2	1 – 6	Awe and Wonder Science activities	<p>Skill Outcomes:</p> <ul style="list-style-type: none"> Use their observations and ideas to begin to suggest answers to questions. Ask simple questions. Observing closely, using simple equipment. Performing simple tests. Identify and classify simple things. Gathering and recording data. Begin to suggest what has been found out. 	<p>Literacy: Speaking and listening Writing Reading</p> <p>Numeracy: Number Measurement</p> <p>SMSC: Enjoy learning about the world around them Co-operate with others</p>
Whole year		Working Scientifically	<p>Pupils will be taught to use the following practical scientific methods, processes and skills through the teaching of the curriculum content:</p> <ul style="list-style-type: none"> Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment. Performing simple tests. Identifying and classifying. Using their observations and ideas to suggest answers to questions. Gathering and recording data to help in answering questions. 	

Core Vocabulary:

Season, weather, change, time, daylight, night, material, physical property, human, animal, body, living, non-living, senses, plants, common, wild, garden, petals, stem, leaf, root, trunk, branches, leaves, flowering, observe, test, equipment, measure, record, name, grow.

Intended impact:

The scientific experiences and knowledge provided through this curriculum plan will enable pupils to embed their scientific curiosity and reasoning, which will enable them to secure their knowledge of the Year 1 Science National Curriculum during their next year of learning.