



**SCIENCE PROGRESSION IN SKILLS AND KNOWLEDGE
YEAR 2 STATUTORY REQUIREMENTS**



THE 5 ENQUIRY TYPES:

Research using secondary sources.

Comparative and fair testing.

Observing over time.

Pattern seeking.

Identifying, classifying, and grouping

AUTUMN	SPRING	SUMMER
<p><u>AUTUMN 1 AND 2: CHEMISTRY - USES OF EVERYDAY MATERIALS</u></p> <ul style="list-style-type: none"> -Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses -Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. <p>Main Enquiry Types Comparative and fair testing Identifying, classifying and grouping</p> <p><u>WORKING SCIENTIFICALLY</u></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. 	<p><u>SPRING 1: BIOLOGY – ANIMALS INCLUDING HUMANS</u></p> <ul style="list-style-type: none"> -Notice that animals, including humans, have offspring which grow into adults -Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) -Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene. <p>Main Enquiry Types Research using secondary sources. Identifying, classifying and grouping</p> <p><u>WORKING SCIENTIFICALLY</u></p> <ul style="list-style-type: none"> -Asking simple questions and recognising that they can be answered in different ways -Identifying and classifying -Using their ideas to suggest answers to questions -Gathering and recording data to help in answering questions. <p><u>SPRING 2: BIOLOGY – PLANTS</u></p> <ul style="list-style-type: none"> -Observe and describe how seeds and bulbs grow into mature plants -Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	<p><u>SUMMER 1 AND 2: BIOLOGY – LIVING THINGS AND THEIR HABITATS</u></p> <ul style="list-style-type: none"> -Explore and compare the differences between things that are living, dead, and things that have never been alive -Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other -Identify and name a variety of plants and animals in their habitats, including micro-habitats -Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. <p>Main Enquiry Types Enquiry Types Research using secondary sources. Observing over time. Identifying, classifying and grouping</p> <p><u>WORKING SCIENTIFICALLY</u></p>



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	<p>Main Enquiry Types Comparative and fair testing Observing over time. <u>WORKING SCIENTIFICALLY</u> <i>-Asking simple questions and recognising that they can be answered in different ways</i> <i>-Observing closely, using simple equipment</i> <i>-Performing simple tests</i> <i>-Identifying and classifying</i> <i>-Using their observations and ideas to suggest answers to questions</i> <i>-Gathering and recording data to help in answering questions.</i></p>	<p><i>-Asking simple questions and recognising that they can be answered in different ways</i> <i>-Observing closely, using simple equipment</i> <i>-Performing simple tests</i> <i>-Identifying and classifying</i> <i>-Using their observations and ideas to suggest answers to questions</i> <i>-Gathering and recording data to help in answering questions.</i></p>
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SUBSTANTIVE KNOWLEDGE TO BE LEARNED BY THE END OF EACH UNIT (WHAT DO WE WANT THE CHILDREN TO KNOW AND REMEMBER?)

AUTUMN TERM	SPRING TERM	SUMMER TERM
<ul style="list-style-type: none">Name a variety of everyday materials and say what they can be used forSay why certain materials are suitable or unsuitable for particular purposes	<ul style="list-style-type: none">Know the life cycle of a human beingKnow the life cycle of the animals studiedRemember what humans need to survive: water, air, foodRemember what humans need to stay healthy: balanced diet, exercise and keeping clean. plants need water, light, soil and air to grow.plants have roots, leaves and stems (and sometimes flowers)	<ul style="list-style-type: none">Know and understand the word habitatName some different habitatsExplain what a simple food chain is

Children working at below Age Related Expectations in SCIENCE at the end of Year 2: