

PENTECOST TERM 1

SCIENCE – Year 2 - Medium Term Planning – BIOLOGY: PLANTS

<u>LESSON 1</u>	<u>LESSON 2</u>	<u>LESSON 3</u>
<p>LEARNING INTENTION: To know that plants have different parts. (RECAP FROM YEAR 1)</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Identify and group things they observe, with support. <p>Aim: Develop scientific knowledge and conceptual understanding through the specific disciplines of biology.</p>	<p>LEARNING INTENTION: To know that plants grow in different habitats.</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Ask simple questions to recognise that plants have different needs to survive. Observe and describe the different areas where plants grow. <p>Aim: Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.</p>	<p>LEARNING INTENTION: To know that seeds and bulbs need water and warmth to germinate.</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Ask simple questions and recognise that they can be answered in different ways. Observe and describe how seeds and bulbs grow into mature plants. <p>Aim: Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.</p>
<p>Key Vocabulary: root, leaf, stem, flower, petal, fruit, trunk, bark, branches</p>	<p>Key Vocabulary: habitat, microhabitat, seasons, changes, observations, desert, meadow, woodland, hedgerow</p>	<p>Key Vocabulary: germination, seed, bulb, water, warmth, plants, leaves, flowers, basal plate, embryo, tunic</p>
<p>Recap & retrieval</p>	<p>Recap & retrieval</p>	<p>Recap & retrieval</p>

	<ul style="list-style-type: none"> • Plants have roots, stems, leaves, flower, petal and fruit. • Trees have roots, a trunk, bark, branches and leaves. 	<ul style="list-style-type: none"> • Plants have roots, stems, leaves, flower, petal and fruit. • Trees have roots, a trunk, bark, branches and leaves. • A habitat is a place where a living thing lives and grows.
<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • Plants have roots, stems, leaves, flower, petal and fruit. • Trees have roots, a trunk, bark, branches and leaves. • Many plants grow from seeds or bulbs. <p>Teacher:</p> <ul style="list-style-type: none"> • Objects, materials and living things can be looked at, compared and grouped according to their features. • Different plants grow in different habitats and change with the seasons. 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • A habitat is a place where a living thing lives and grows. • Grass grows with different success rates in different areas. <p>Teacher:</p> <ul style="list-style-type: none"> • Cacti grow in desert habitats. • Daisies grow in meadow habitats. • Bluebells grow in woodland habitats. 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • Seeds and bulbs need water and warmth to start growing (germinate). • A bulb contains a tiny plant and all the food needed to grow. • The flowers of plants produce seeds. <p>Teacher:</p> <ul style="list-style-type: none"> • Seeds also form inside cones. • Spring bulbs can start to grow in winter when the ground is frozen. • Plants grow from seeds and bulbs. • As the plant grows bigger, it develops leaves and flowers. • The flowers on some plants develop into fruit that contains seeds.

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<u>LESSON 4</u>	<u>LESSON 5</u>	<u>LESSON 6</u>
<p>LEARNING INTENTION: To know that plants need water, light and a suitable temperature to grow and stay healthy.</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. <p>Aim: Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.</p>	<p>LEARNING INTENTION: To know that not all plants grow in soil.</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Ask simple questions and recognise that they can be answered in different ways. <p>Aim: Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.</p>	<p>LEARNING INTENTION: To know that some plants grow at different rates.</p> <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Perform simple tests. Observe closely using simple equipment. Gather and record data to help in answering questions. Observe and describe how seeds and bulbs grow into mature plants. <p>Aim: Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.</p>

<p>Key Vocabulary: shade, flower bud, sunlight, survive, temperature, water, warmth</p>	<p>Key Vocabulary: succulent, hydroponic, parasite, nutrients</p>	<p>Key Vocabulary: compare, conclusion, record, results, observe, measure, data</p>
<p>Recap & retrieval</p> <ul style="list-style-type: none"> Plants have roots, stems, leaves, flower, petal and fruit. Trees have roots, a trunk, bark, branches and leaves. A habitat is a place where a living thing lives and grows. Seeds and bulbs need water and warmth to start growing (germinate). 	<p>Recap & retrieval</p> <ul style="list-style-type: none"> Plants have roots, stems, leaves, flower, petal and fruit. Trees have roots, a trunk, bark, branches and leaves. A habitat is a place where a living thing lives and grows. Seeds and bulbs need water and warmth to start growing (germinate). Plants need water, light and a suitable temperature to grow healthy. 	<p>Recap & retrieval</p> <ul style="list-style-type: none"> Plants have roots, stems, leaves, flower, petal and fruit. Trees have roots, a trunk, bark, branches and leaves. A habitat is a place where a living thing lives and grows. Seeds and bulbs need water and warmth to start growing (germinate). Plants need water, light and a suitable temperature to grow healthy. Plants that live in hot, dry deserts are called succulents.
<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> Plants need water, light and a suitable temperature to grow healthy. Without any of these things the plants will die. <p>Teacher:</p> <ul style="list-style-type: none"> Shady areas and boggy areas will have an effect on the growth rate. 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> Plants that get their nutrients from animals, are known as carnivorous plants. Plants that live in hot, dry deserts are called succulents. <p>Teacher:</p> <ul style="list-style-type: none"> Strawberries can grow in water (hydroponic). Plants that grow on other plants and take their food are called parasites. 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> Tests can be carried out by following a simple set of instructions. Data can be recorded in different ways. <p>Teacher:</p> <ul style="list-style-type: none"> A prediction is a guess of what might happen in an investigation.

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| | <ul style="list-style-type: none">• Lithops are plants that do not need much water (succulents). | |
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Assessment

Cumulative quiz. Retrieval practice.