

Secret Life of Plants Instructions and Answer Sheet for Teachers

Gardens by the Bay Avatar:

- Horticulturist

Level/ Subject(s):

- Upper Primary/ Science, English

Learning Objectives:

- Recognise the basic functions of plant parts
- Identify parts of a flower
- Understand the process of pollination




Activity 1 – Plant Talk

Help me match the plant functions to the correct plant parts!

Plant Talk		Plant Part
"We come in numerous colours, shapes and sizes. Some of us bear pollen grains, while some do not. Without us, there will not be fruits."	XXXX	Fruits
"We are the reason plants can stand upright! We help to transport water and nutrients throughout plants, keeping them alive."	XXXX	Roots
"We come in varying shades of green, and may even be yellow or red! We absorb sunlight for plants to make food."	XXXX	Stems
"Some of us can be eaten as food, while others may be poisonous! Whether our outer layers are thick or thin, fleshy or hard, we do our best to protect the seeds inside us."	XXXX	Flowers
"Like a network of straws, we take in water and nutrients. Some of us love to be seen, and others prefer to be hidden underground. We provide support and stability too!"	XXXX	Seeds
"Some of us are tiny, and some of us are huge! We need air, water and suitable temperature to start growing. We may look insignificant but we help ensure plant life continues!"	XXXX	Leaves

Activity 2 - Flowers and their Pollinators

Now, observe these pictures of various flowers. Guess their pollinator(s) and give an explanation for your responses.

Flower	Image of Flower	Pollinator(s)/ Explanation
<p>Common Name: Cannonball Tree</p> <p>Scientific Name: <i>Couroupita guianensis</i></p> <p>Clues:</p> <ul style="list-style-type: none"> - Strong sweet scent - Shallow - Brightly-coloured 	 <p><i>Couroupita guianensis</i></p>	<p>Bees</p> <p>The shallow shape of the flower allows bees to reach the floral parts easily. Bees are also attracted to strong, sweet scents and brightly-coloured flowers.</p>
<p>Common Name: Bell Flower</p> <p>Scientific Name: <i>Portlandia grandiflora</i></p> <p>Clues:</p> <ul style="list-style-type: none"> - Gives off a strong smell at night - In white or dull colours 	 <p><i>Portlandia grandiflora</i></p>	<p>Moths</p> <p>The flower emits a smell at night, hence it attracts moths that are nocturnal. The white flowers are also more visible against the green leaves in the dark, and this draws the moth to them.</p>
<p>Common Name: Golden Net-bush</p> <p>Scientific Name: <i>Pseuderanthemum reticulatum</i></p> <p>Clues:</p> <ul style="list-style-type: none"> - Clusters in white and purple - Tube-like 	 <p><i>Pseuderanthemum reticulatum</i></p>	<p>Butterflies</p> <p>Butterflies are attracted to flowers that are white and purple in colour, and are good at finding nectar inside tube-like flowers since they have long mouth parts.</p>