

Glenfield Infant School Knowledge Organiser

Year 2 - Summer 1	Science	Plants - Plant Growth
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What should I already know?

I know a variety of common plants, and how they differ.

I know that deciduous trees lose their leaves seasonally, but evergreen trees do not.

I know the basic structure of common plants (including leaves, flowers, fruit, roots, bulb, seed, trunk, branches, stem.)

Vocabulary:

Energy	The power plants get from sunlight, water, and food to grow and stay alive.
Germinate	When a seed starts to grow into a plant.
Life Cycle	The stages a plant goes through from a seed, to growing, to making new seeds.
Measure	To find out how long, tall, or heavy something is.
Nutrient	Something in the soil that plants need to grow healthy and strong.
Shoot	The first part of a plant that grows up from the seed.

1. What do seeds need to grow?

water

music

wind

moonlight

soil

sunlight

love

warmth

Sticky Knowledge

Seeds need water to start growing, air to breathe, warmth to grow faster and light (for some plants) to make food once it sprouts.

2. What do seeds and bulbs need to grow?



Sticky Knowledge

Seeds have energy stored inside them that they use to begin growth. Some seeds do not grow if they do not have the right conditions. Bulbs have a store of energy and all the necessary parts inside for the plant to grow when the conditions are right.

3. What do seeds need to germinate?

Do seeds need water to grow?

Test A:

Do seeds need light to grow?

Test B:

Do seeds need warmth to grow?

Test C:

Normal conditions

Sticky Knowledge

To germinate, seeds need water (to wake up the seed and start growth), air (to breathe) and warmth (to help the seed grow into a plant.)

4. What do plants need for a healthy growth?

Rose's ray of sunshine

Character: Rose, Lily, and Rose. Lily and Rose are two seeds.

1) Once, there were two seeds called Lily and Rose. It rained and they started to grow roots and shoots.

2) Lily was happy growing in the warm sunlight. She grew a stem, leaves and flowers. Bees buzzed around her.

3) Rose sprouted in the shade under some weeds. Her long stem stretched, looking for light. She turned yellow and withered.

4) Lily was worried about Rose. She asked Wise Owl for help. Wise Owl shared his plan with the birds, deer and rabbits.

5) The animals rubbed the weeds until they had all gone. Rose looked up and saw the sun and knew that she would be okay.

Know It

My plant diary

Date: _____

Draw and label a diagram of your plant.

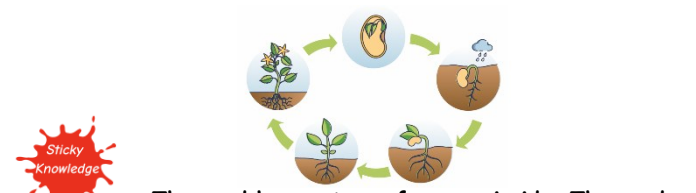
How tall is the stem? _____

How many leaves are there? _____

Sticky Knowledge

Plants need light for a healthy growth.

5. What is the life cycle sequence of a plant?



Sticky Knowledge

The seed has a store of energy inside. The seed germinates. A seedling grows its first leaves. More leaves grow to make food for the plants. Flowers have seeds so more plants can grow.

6. Can we recall what plants need for healthy growth?

water

music

wind

moonlight

soil

light

love

warmth

Sticky Knowledge

Plants need water (to stay alive and grow), air (to breathe), light (to make food from sunlight), nutrients from soil (to grow strong and healthy) and space (to grow roots and leaves).

