

DATE

LO: To explain how seeds germinate to
become plants.

Starter:

Why are plants important to the world?

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LO: To explain how seeds germinate to become plants.

Starter: Intriguing questions

Why are plants important to the world?

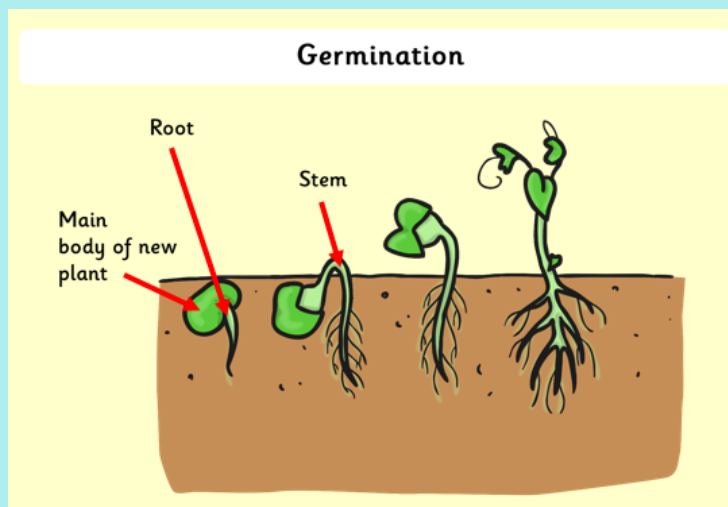
Plants produce oxygen that living things need to live.



After a flower has been fertilised and has produced seeds which are then dispersed, the next step is for that seed is to begin to grow. Inside every seed is the potential for a plant to grow, but it will only begin to grow if all the conditions are right.



When a seed is in the correct growing conditions it will begin to grow roots and shoots. This is called germination.



Read the text:

Glossary:

access - the right opportunity.

energy source - give strength and life.

germinate - begin to grow.

swell - become larger.

What is the process of germination?

Germination requires three main factors, these are:

- Water: Seeds need to have access to a significant amount of water to go through imbibition.
- Oxygen: Oxygen works as the seed's main energy source while it is growing. If a seed is buried too deeply in the soil, they will not have access to enough oxygen to grow.
- Temperature: The temperature is important depending on what seed is germinated. Some seeds only grow in warm temperatures, while some only grow in cold.

Surprisingly, light is not necessary to the germination of a seed!

The first step in germination is when the seed begins to absorb water, it begins to swell, and the outer coat breaks and roots grow, helping it absorb more water.

It will then break down the food stored in the seed for the plant to grow.

After the food from the seed is used up, the seed begins to absorb nutrients from the ground and the shoots begin to grow upwards and out of the ground.

Questions:

1. What temperature is needed to germinate?
2. What do seed NOT need to germinate?
3. How do seeds get their food?

Second Read

Put the sentences in order using the text.

Oxygen is a source of energy for seeds to grow.

Seeds do not need light to grow.

Seeds need lots of water to be able to absorb water to the stem.

Seeds only grow in warm temperatures.

Task: Draw in sequence a seed germinating:

Lets watch a seed germinate:

 <https://www.youtube.com/watch?v=oDBX2gCXxYw>

