

# THE PARTS OF A PLANT

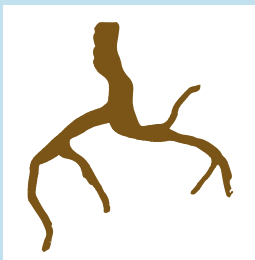
What are the different functions of each part of the plant?

## What are the parts of a plant?

- Plant parts include **roots for nutrients, stems for support, leaves for photosynthesis, and flowers and fruits for seed dispersal.**
- In addition, plants may also have specialized features like **thorns or tendrils that provide protection.**



## Parts of a plant



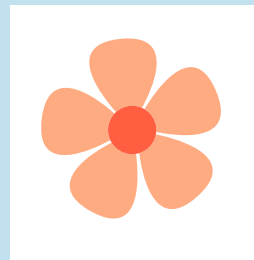
Root



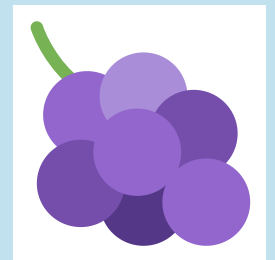
Stem



Leaves



Flowers



Fruits

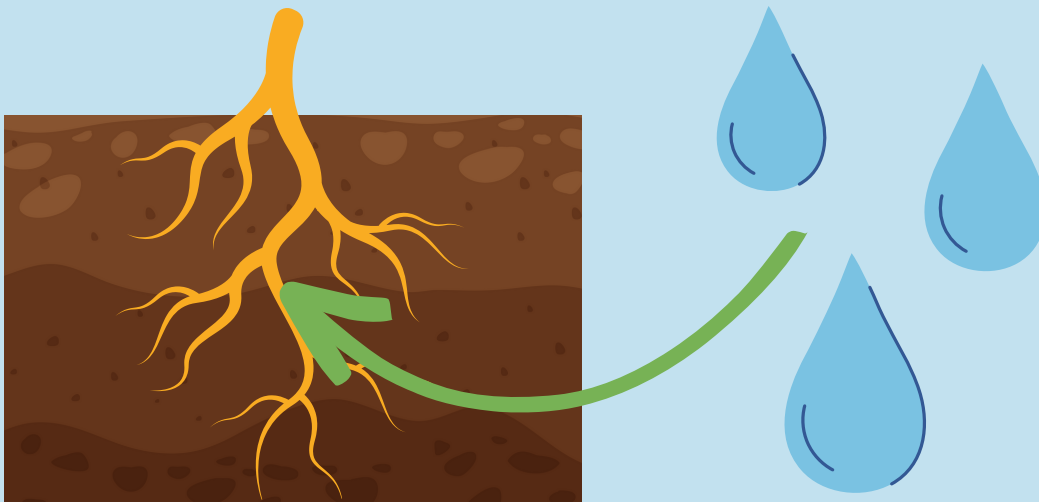
## Why are the parts important?

- All the parts of the plant has a role to do to **keep the plant alive and healthy**

# What are the functions of each part of the plant?

## 1. Roots

- The roots **hold the plant into the soil and absorb the nutrients from the soil.**



- Roots help keep plants upright by **anchoring them in the ground.**
- Some plants have roots that are good to eat, such as **carrots and potatoes.**

## Transpiration

- Transpiration** is like **sweating for plants.**
- Water and nutrients are **absorbed by the roots, travel up to the leaves, and evaporate from small pores called stomata,** which help **cool the plant down and transport nutrients.**



## 2. Stem

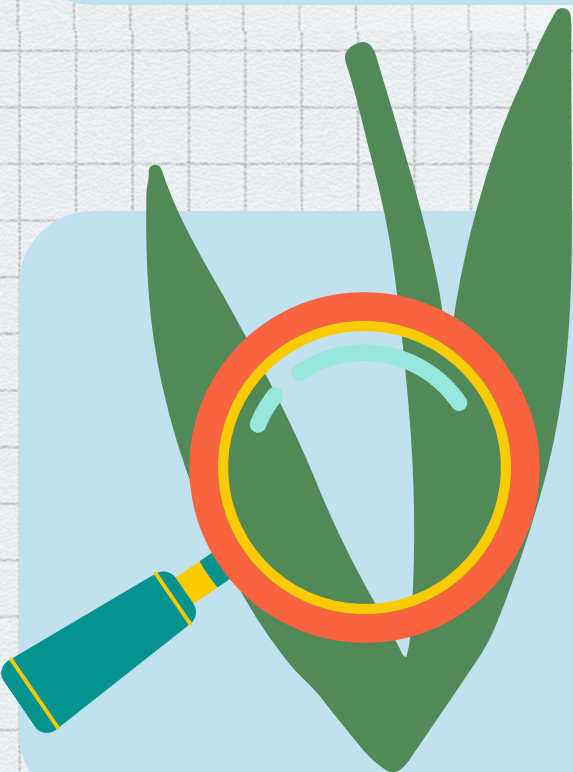
- The stem of a plant **supports the plant's leaves, flowers, and fruit. It's like the plant's backbone.**



- The stem helps in **transporting all the nutrients to all the parts of the plant!**

### Did you know?

- The stem has two main parts: the **"stalk" or "trunk"** that supports the plant, and the **"nodes"** where leaves and flowers grow.
- Inside the stem, there are tubes called **"xylem" and "phloem"** that transport water and nutrients to different parts of the plant.



### 3. Leaves

- Leaves **make food for the plant, using sunlight and a process called photosynthesis.**



- Leaves also help plants breathe by taking in **carbon dioxide from the air and releasing oxygen.**
- Leaves come in all shapes and sizes, and they're usually **green because of a pigment called chlorophyll.** Some leaves change colour in the fall, which is really cool!

### Photosynthesis

- The leaves of the plant contains a green pigment called chlorophyll to absorb sunlight and turn water and carbon dioxide into food for the plant while releasing oxygen back into the air.





## 4. Flowers

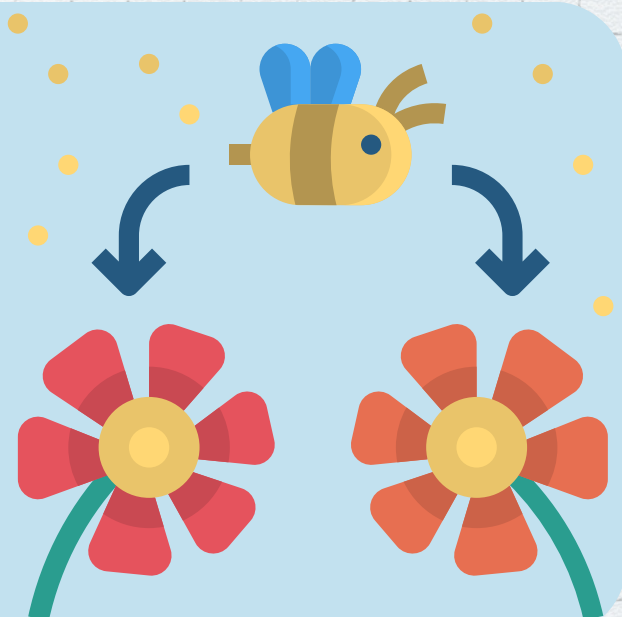
- Flowers are the part of the plant that **makes seeds, which can grow into new plants.**



- Flowers come in many different shapes and colours, and they often **have a sweet smell to attract insects and animals to help pollinate them.**
- After a flower is pollinated, it can develop into a fruit that contains seeds. This is how plants make more of themselves!

## Pollination

- Pollination is the process by which pollen from a flower's male parts (stamens) is transferred to its female parts (pistils).
- This can happen when insects, birds, or the wind carries the pollen from one flower to another, which fertilizes the plant and helps it make seeds.



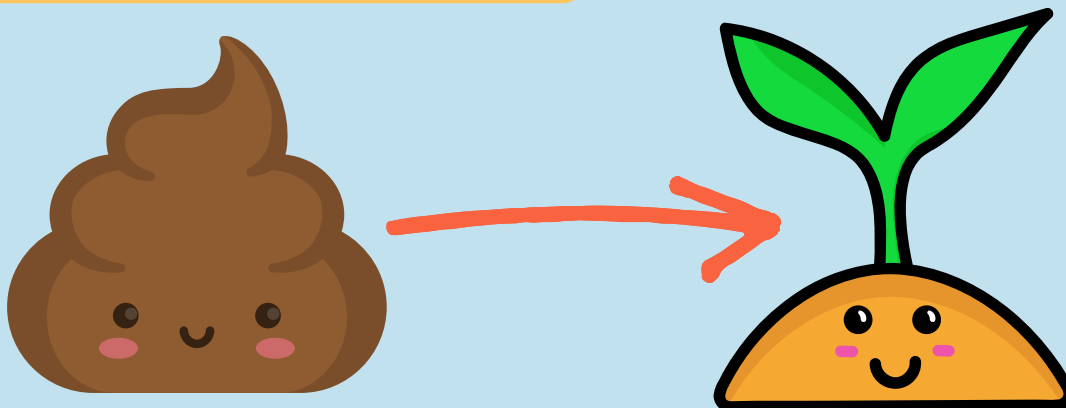
## 5. Fruits

- The main function of a fruit is to protect and nourish the seeds inside it.



- Fruits help to **disperse seeds**, which allows new plants to grow in different places.
- Many animals eat fruits and help to spread the seeds as they travel, which helps the plant to grow in new areas.

### What happens to the seeds?

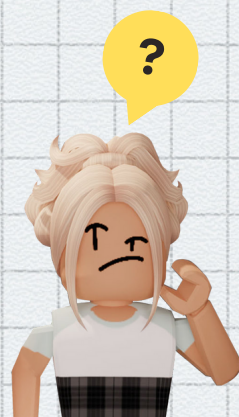
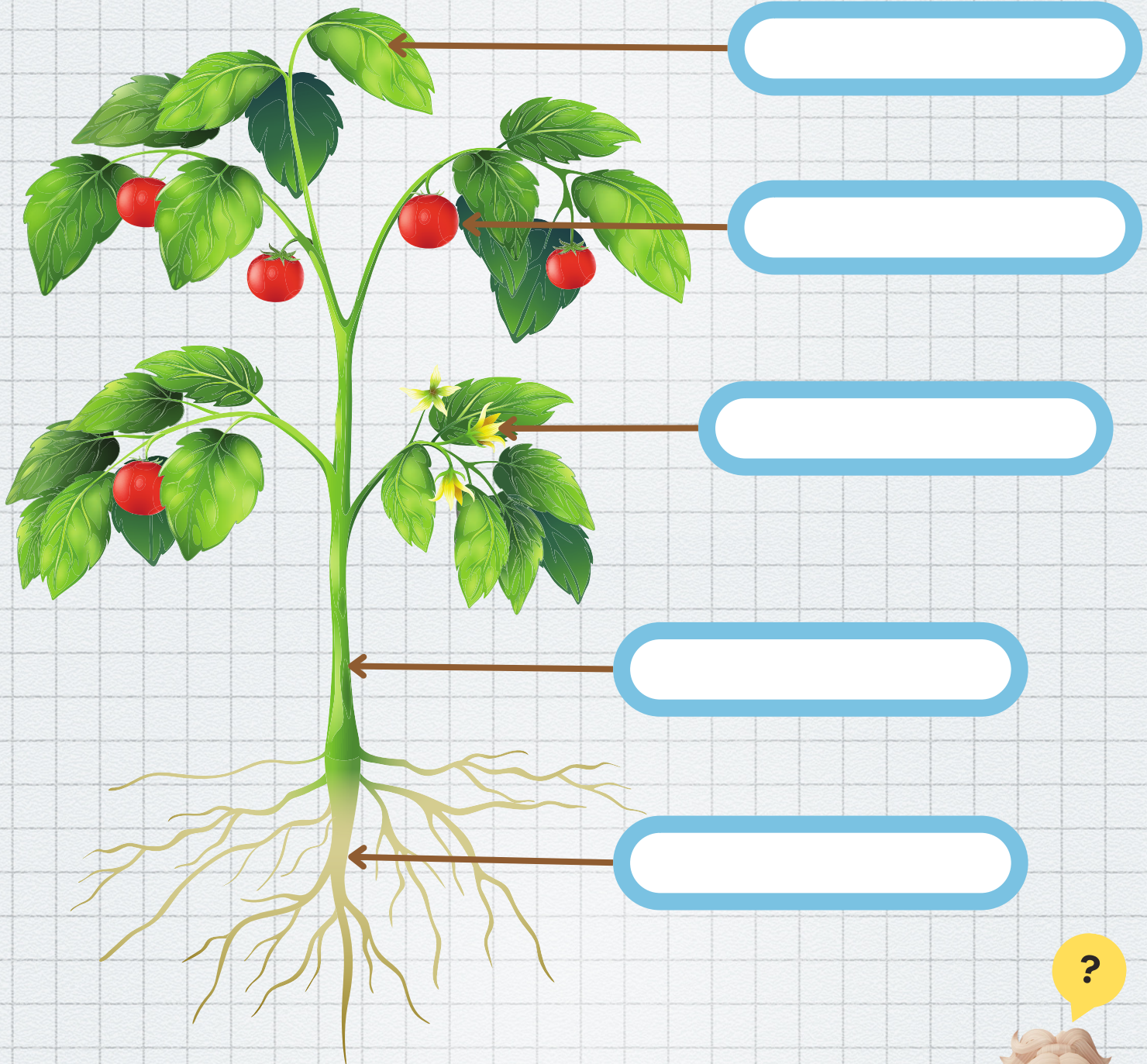


- Animals can disperse fruit seeds by eating the fruit and depositing the seeds in new locations when they poop!



## Exercise 1

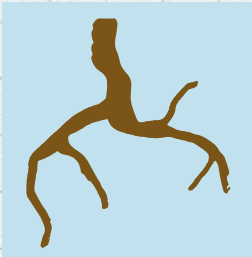
Can you identify the names of the parts of a plant?



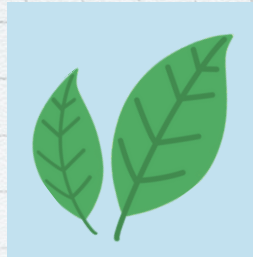


## Exercise 2

Can you identify which part holds seeds to grow new plants?



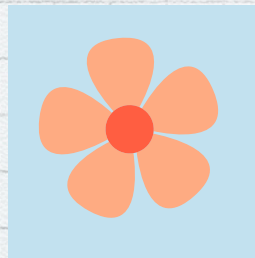
Root



Leaves



Stem

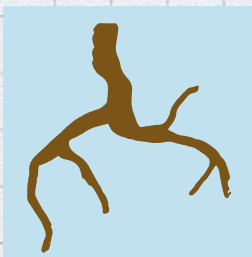


Flowers



Fruits

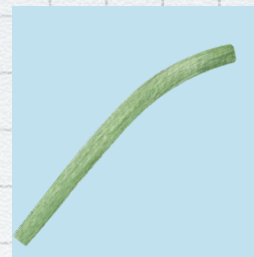
Can you identify which part acts like a straw and sucks up water and nutrients?



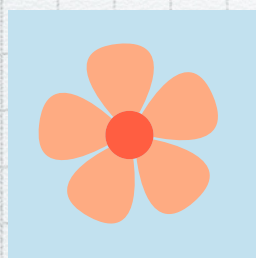
Root



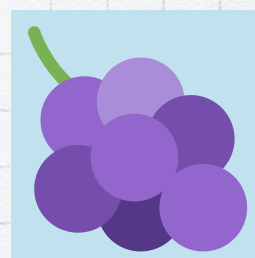
Leaves



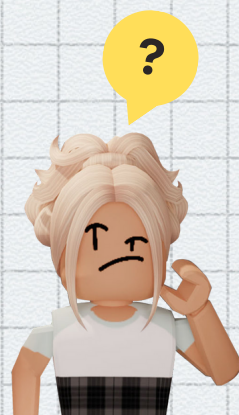
Stem



Flowers

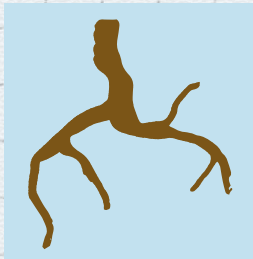


Fruits

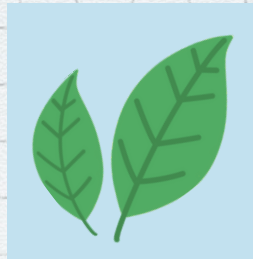




Can you Identify which part has a green pigment called chlorophyll?



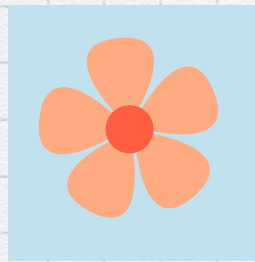
Root



Leaves



Stem

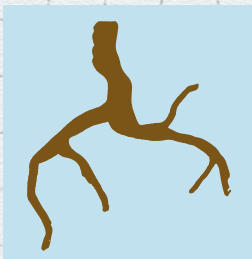


Flowers

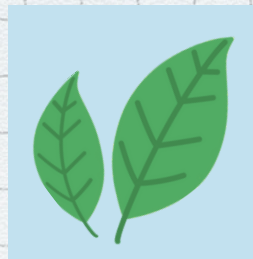


Fruits

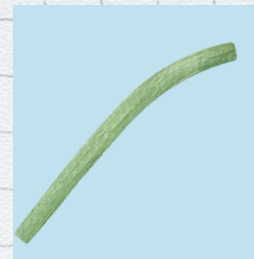
Can you identify which part goes through the process called photosynthesis?



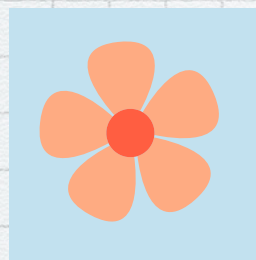
Root



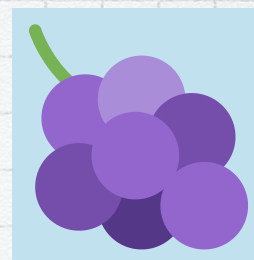
Leaves



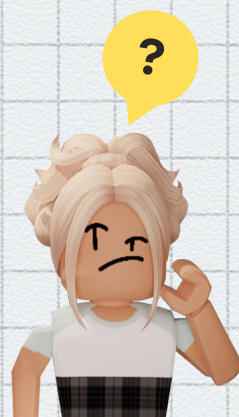
Stem



Flowers

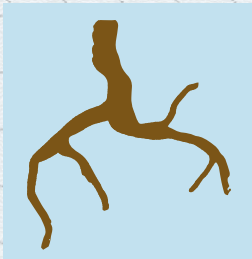


Fruits

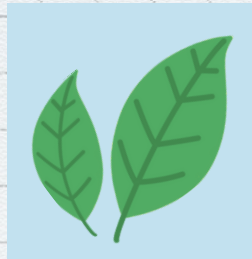




Can you identify which part has a smell that attracts insects and animals to pollinate?



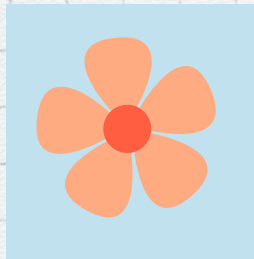
Root



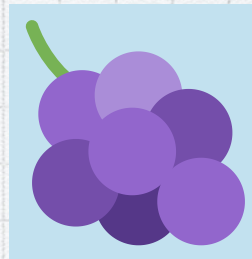
Leaves



Stem

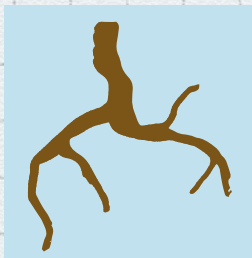


Flowers

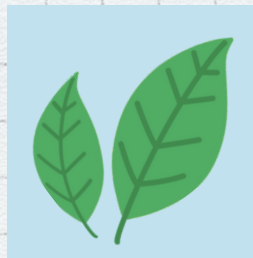


Fruits

Can you identify which part transports nutrients to all parts of the plant?



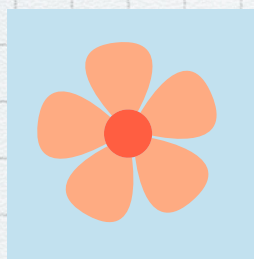
Root



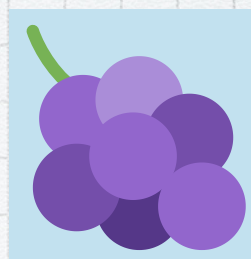
Leaves



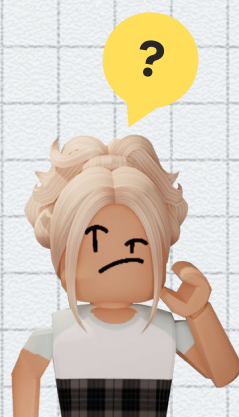
Stem



Flowers



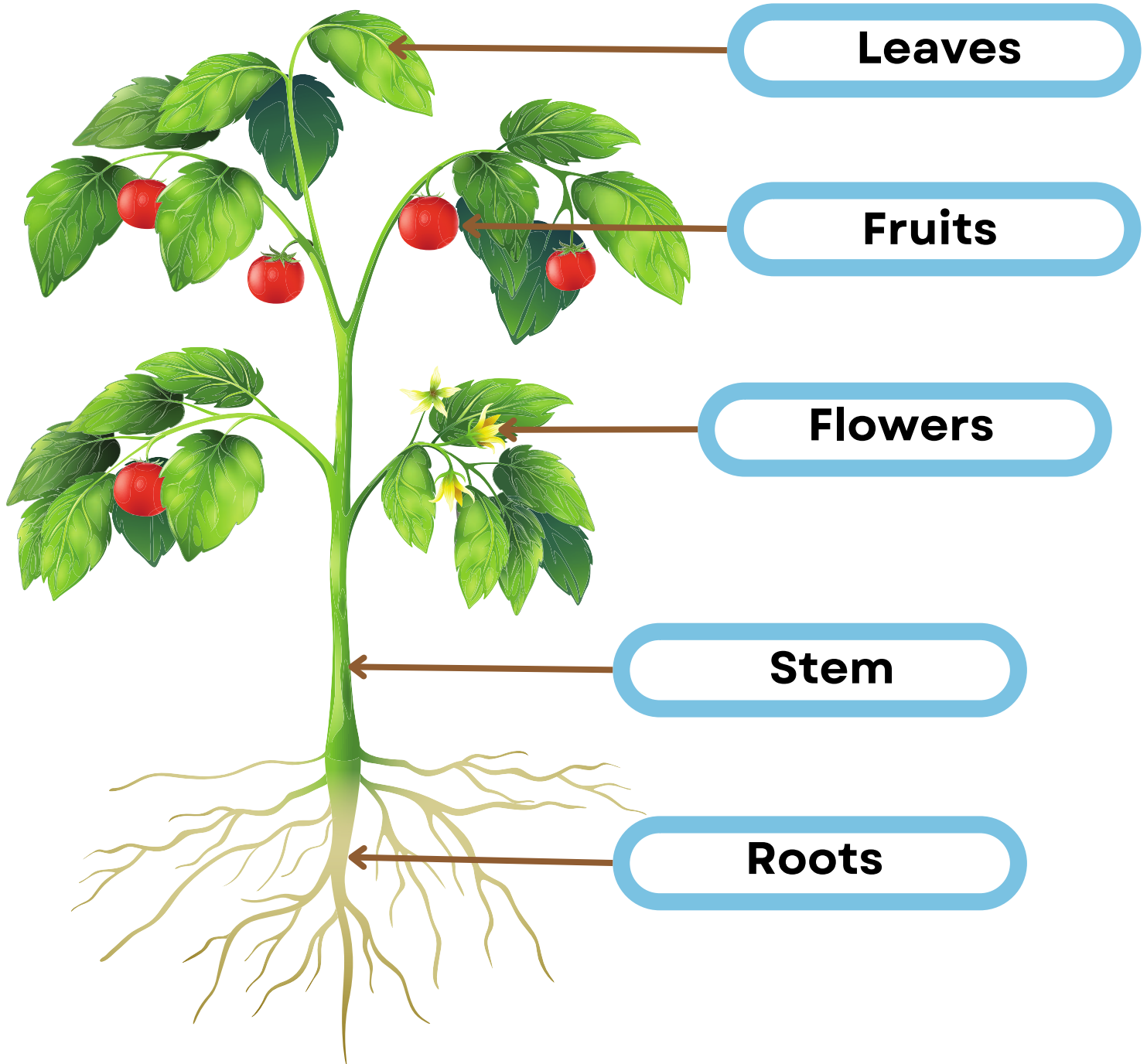
Fruits





## Correct Answers

### Exercise 1

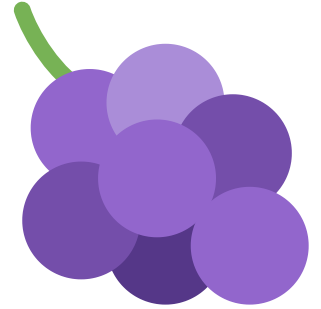


## Correct Answers

### Exercise 2

#### Fruits

Holds seed inside that can grow new plants



#### Roots

Acts like a straw and sucks up water and nutrients



#### Leaves

Has chlorophyll that give its green color



#### Leaves

Goes through the process of photosynthesis



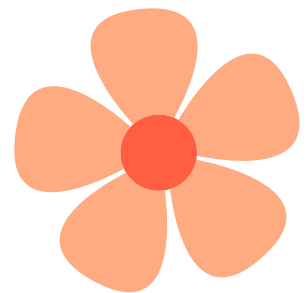


## Correct Answers

### Exercise 2

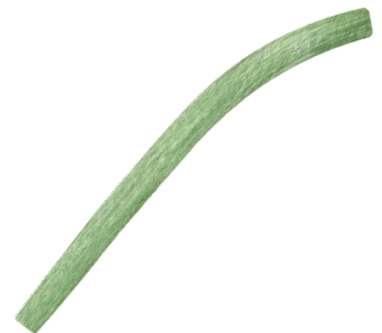
Flowers

Has a smell that attracts insect and animal pollinators



Stem

Transports nutrients and water to all parts of the plant



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