

P4 SCIENCE Term 1
Unit 1 – Plant System

What is a **system**?

What do you call the **scientists** who study plants? _____

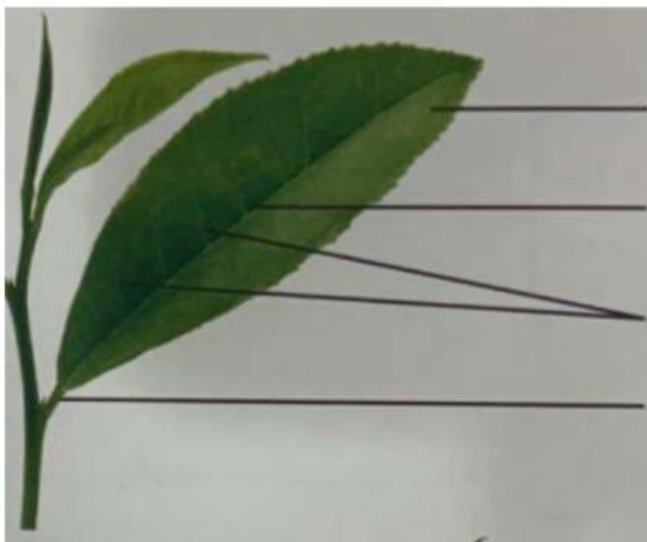
Who was the **first director** of the Singapore Botanic Gardens who researched **rubber trees**? _____

What was his research on rubber trees about? And why was it important?

What do you call the **green substance** in leaves? _____

What do you call the **process of making food** by plants? _____

Identify the **parts of a leaf**.



Fill in the blank with the correct **part of the leaf**.

The _____ is usually the largest part of a leaf.

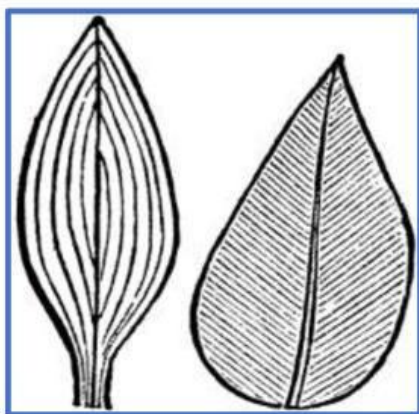
The _____ of the leaf determines the shape of the leaf.

The _____ attaches the leaf to the stem of a plant.

The _____ of the leaf is attached to the leaf stalk and branches to smaller veins.

Identify the type of veins the following leaves have.





Give 2 examples of leafy vegetables that we can eat:

_____ and _____

Leaves of different plants can be different in _____, _____,
_____, and _____.

Identify the **type of edges** the following leaves have:





Identify the **shape** of the following leaves:





Identify the **color** of the leaves:





Identify the **texture** of the leaves:





Why are **cactus leaves shaped like spines**?

What is different about the cactus, aside from its leaves, compared to other plants with green leaves?

Which plants have **hard and woody stems**? _____ and _____

Which plants have **soft and non-woody stems**? _____

Which plants have **weak, non-woody stems** that **coil around structures** to get enough light to make food? _____

Which plants have **weak, non-woody stems** that **crawl on the ground** and **spread their leaves** to get enough light to make food? _____

Give 2 examples of plants with hard and woody stems:

1. _____

2. _____

Give 2 examples of plants with soft and non-woody stems:

1. _____

2. _____

_____ store some food made by the leaves, to be used by the plants when needed. They are the main source of food for people who live in places with poor weather conditions. 2 examples of these are _____ and _____.

A part of a stem separated from a plant is called a _____.
_____ and _____ will grow from it if you put it in water.

Name the part of the plant that has the following function.

_____ 1. They plants absorb water and mineral salts.

_____ 2. They help in the exchange of gases.

- _____ 3. They keep plants upright and support leaves so that they get enough light.
- _____ 4. Most plants have them green to absorb light to make food for the plant.
- _____ 5. They transport water, mineral salts and food to other parts of the plant.
- _____ 6. They hold plants firmly to the ground.

Understanding.

Differentiate the 2 given plants by providing details.



Pickerel weed



Quaking Aspen

