

Every Child A Seed Programme

Lesson 2: Plant Diversity and plant parts



Supported by:

About the Every Child A Seed programme

- A programme by NParks to encourage students to grow a plant, and learn about:
 - Plant life cycle and reproduction
 - Plant diversity and plant parts
 - Plant needs
- We hope that students will learn to appreciate plants more, and join us in making Singapore a City In Nature!

How does planting seeds help our City In Nature?

- Everyone plays a role in creating our City In Nature, including you!
- Growing plants is an important part of our City In Nature. Roadsides, gardens, and parks are important habitats and calming spaces because of plants.
- By growing your own seeds, we hope that you will appreciate plants more, and have a deeper appreciation of our City In Nature.

Plant diversity

- Plants are generally classified into:
 - Flowering plants
 - Non-flowering plants
- Flowering plants produce seeds
- All the seeds you have are from flowering plants!

Bayam



Kang Kong



Thai Basil



Some common non-flowering plants



Bird's Nest Fern



Resam



Dragon Scales

Where do plants live?



Where do plants live?

On land



Where do plants live?

On land

In water



Where do plants live?

On land



In water



Under the water



Do plants that grow in different places all look the same?



Bamboo orchids grow in the ground



Water lilies grow in the water

Do they have the same plant parts?

Plant parts

- Flowering plants all have:
 - Roots
 - Stems
 - Leaves
 - Flowers
- Can you label them?

Waterleaf



Plant parts

- Flowering plants all have:
 - ~~Roots~~
 - Stems
 - Leaves
 - Flowers
- Can you label them?

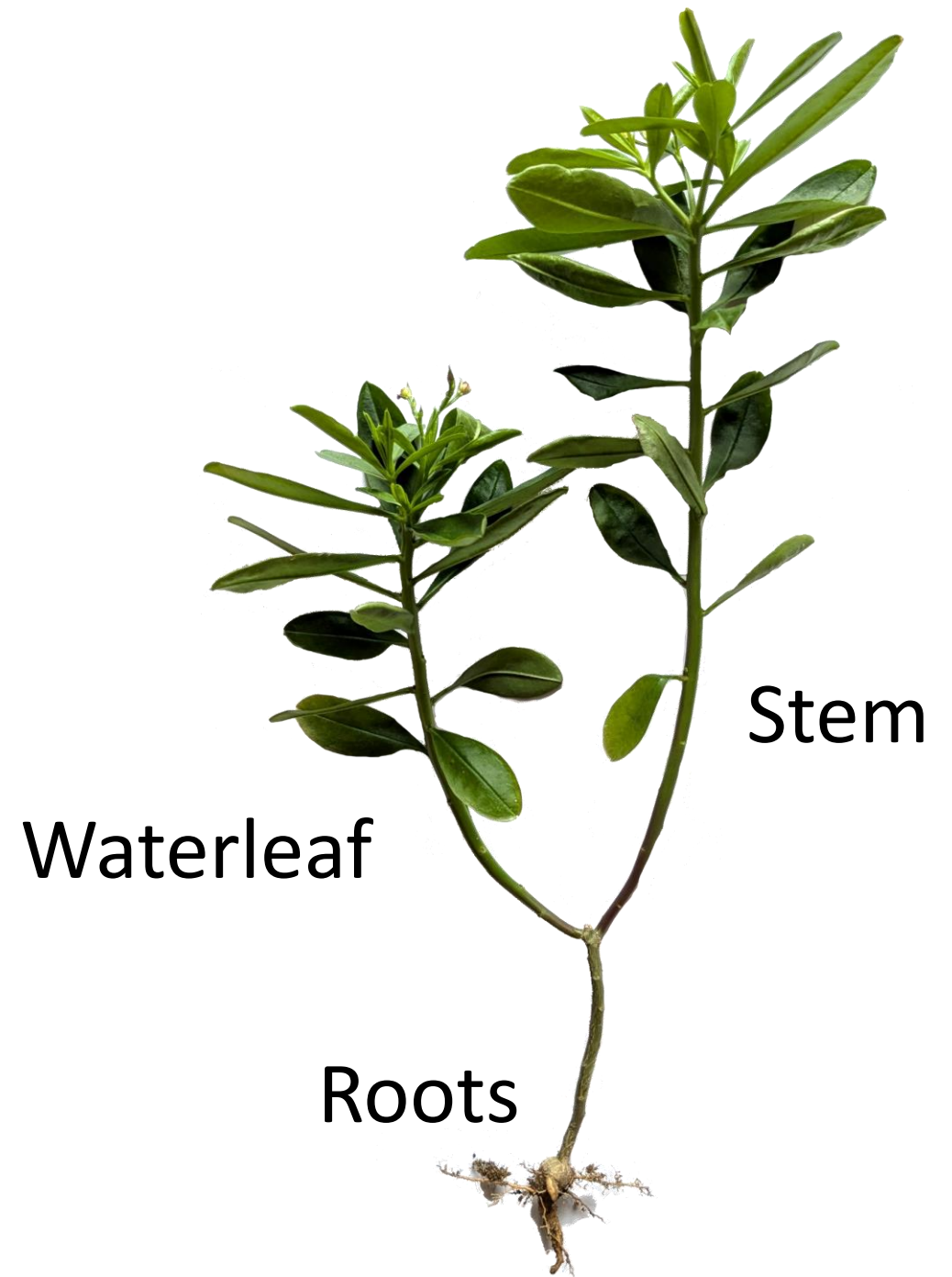
Waterleaf

Roots



Plant parts

- Flowering plants all have:
 - ~~Roots~~
 - ~~Stems~~
 - Leaves
 - Flowers
- Can you label them?



Plant parts

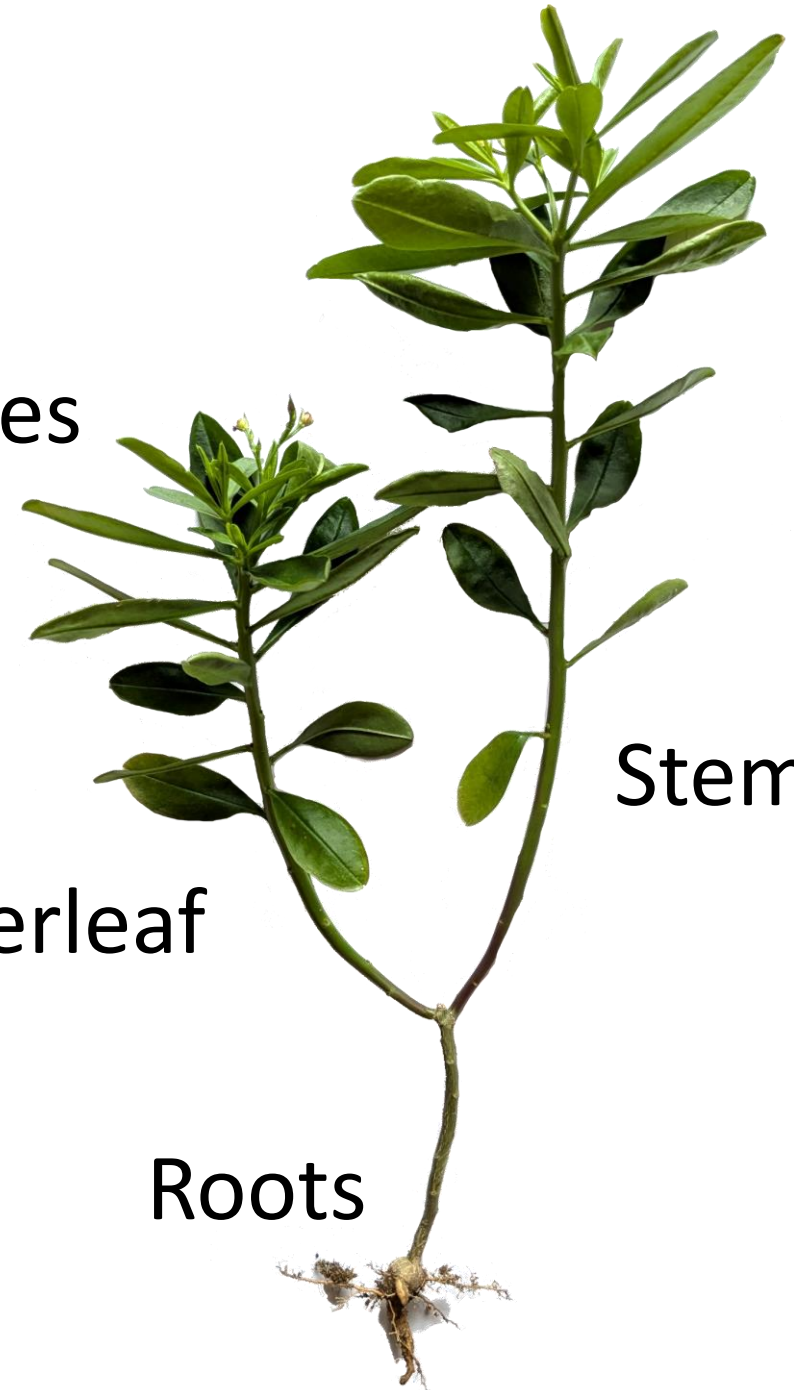
- Flowering plants all have:
 - ~~Roots~~
 - ~~Stems~~
 - ~~Leaves~~
 - Flowers
- Can you label them?

Leaves

Stem

Waterleaf

Roots



Plant parts

- Flowering plants all have:
 - ~~Roots~~
 - ~~Stems~~
 - ~~Leaves~~
 - ~~Flowers~~
- Can you label them?

Flowers

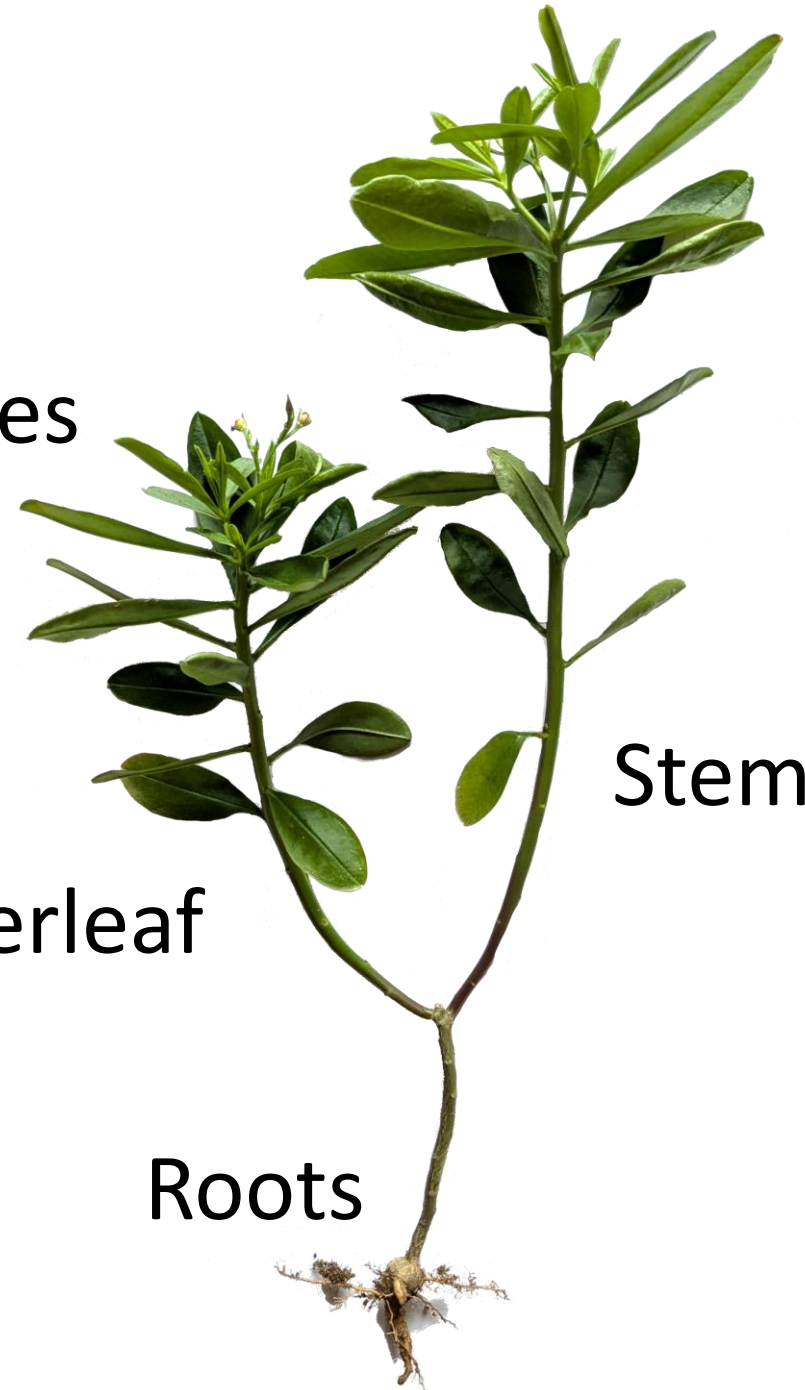


Leaves

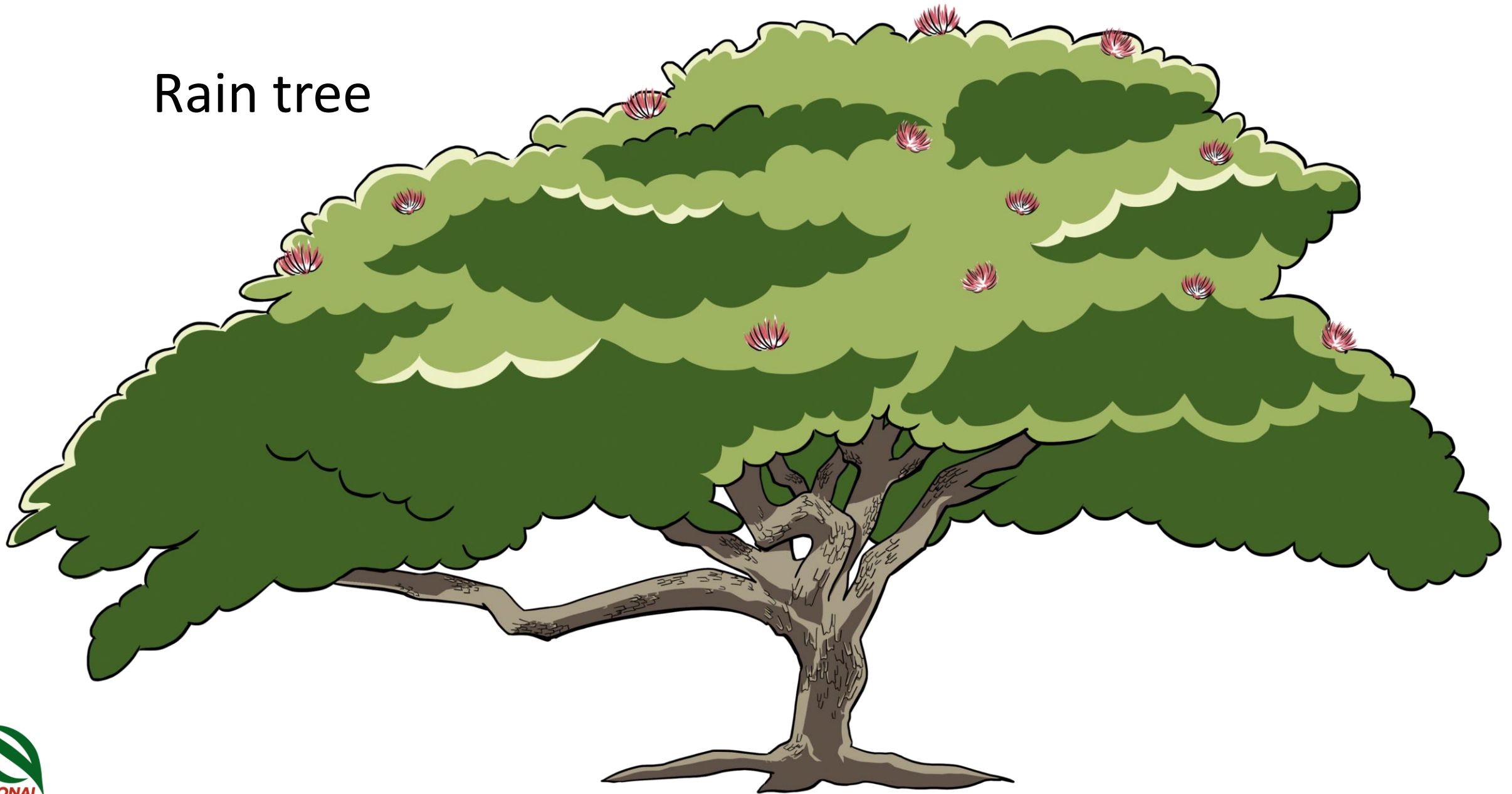
Waterleaf

Stem

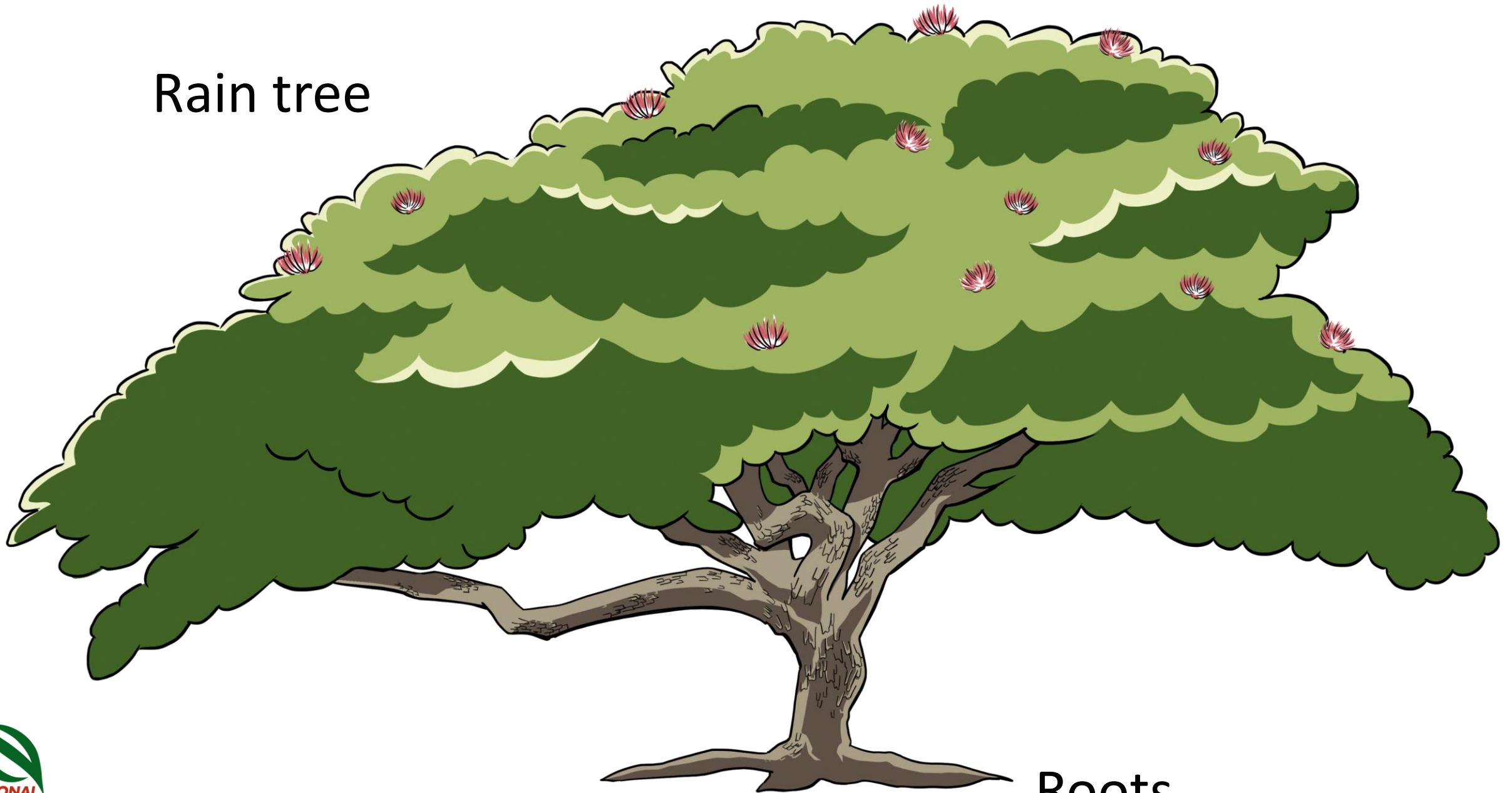
Roots



Rain tree

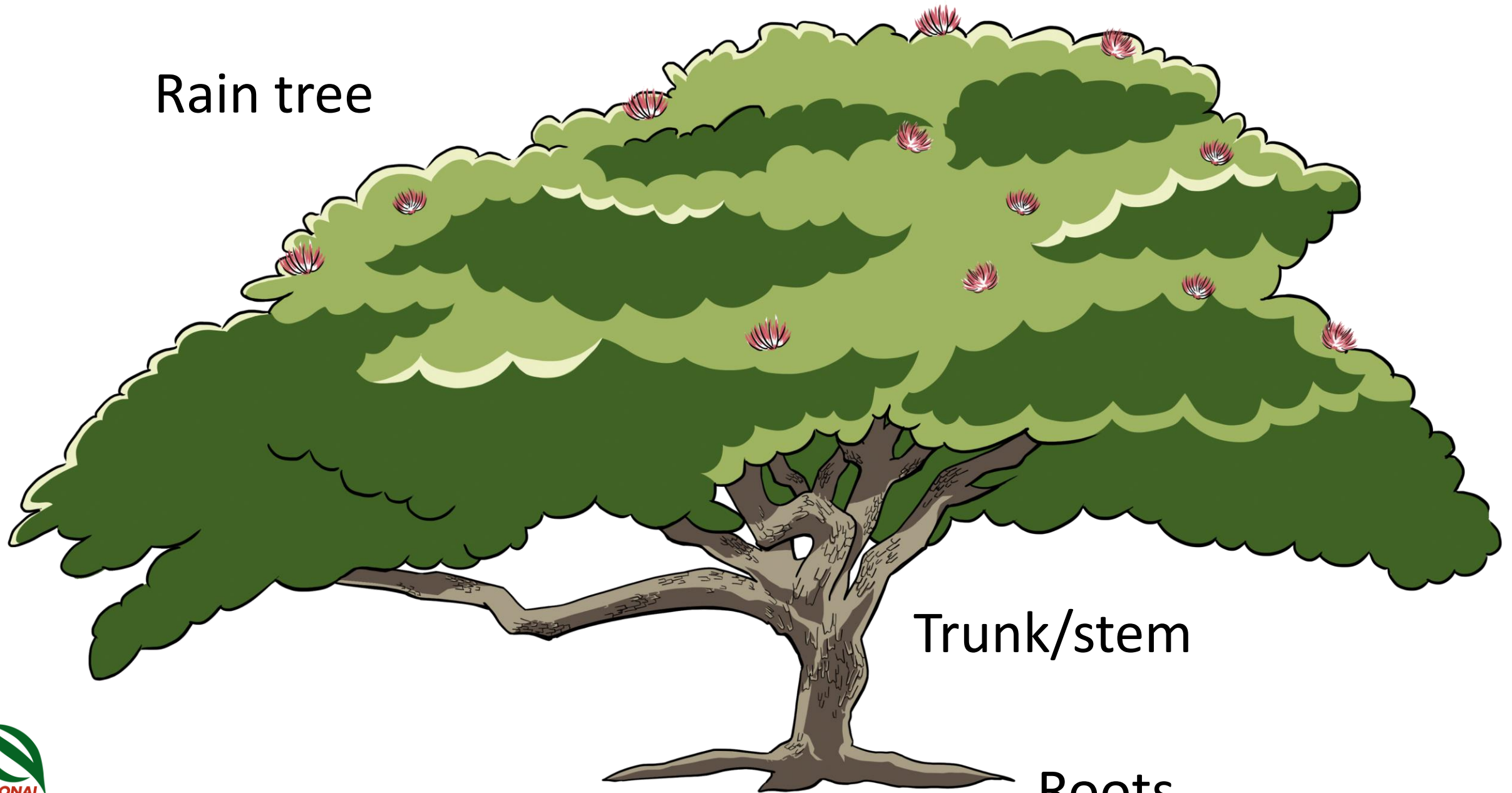


Rain tree



Roots

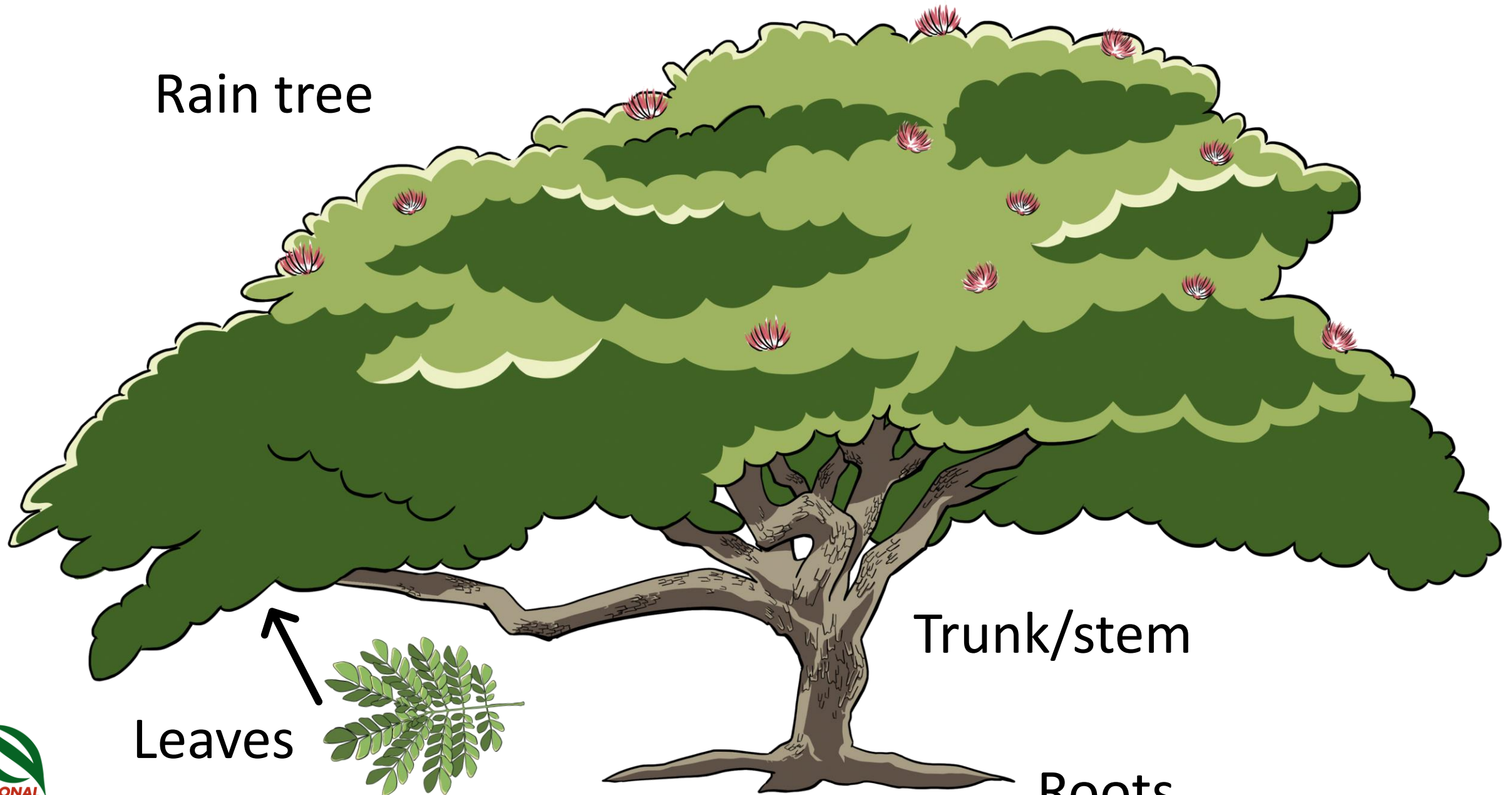
Rain tree



Trunk/stem

Roots

Rain tree



Trunk/stem

Leaves

Roots

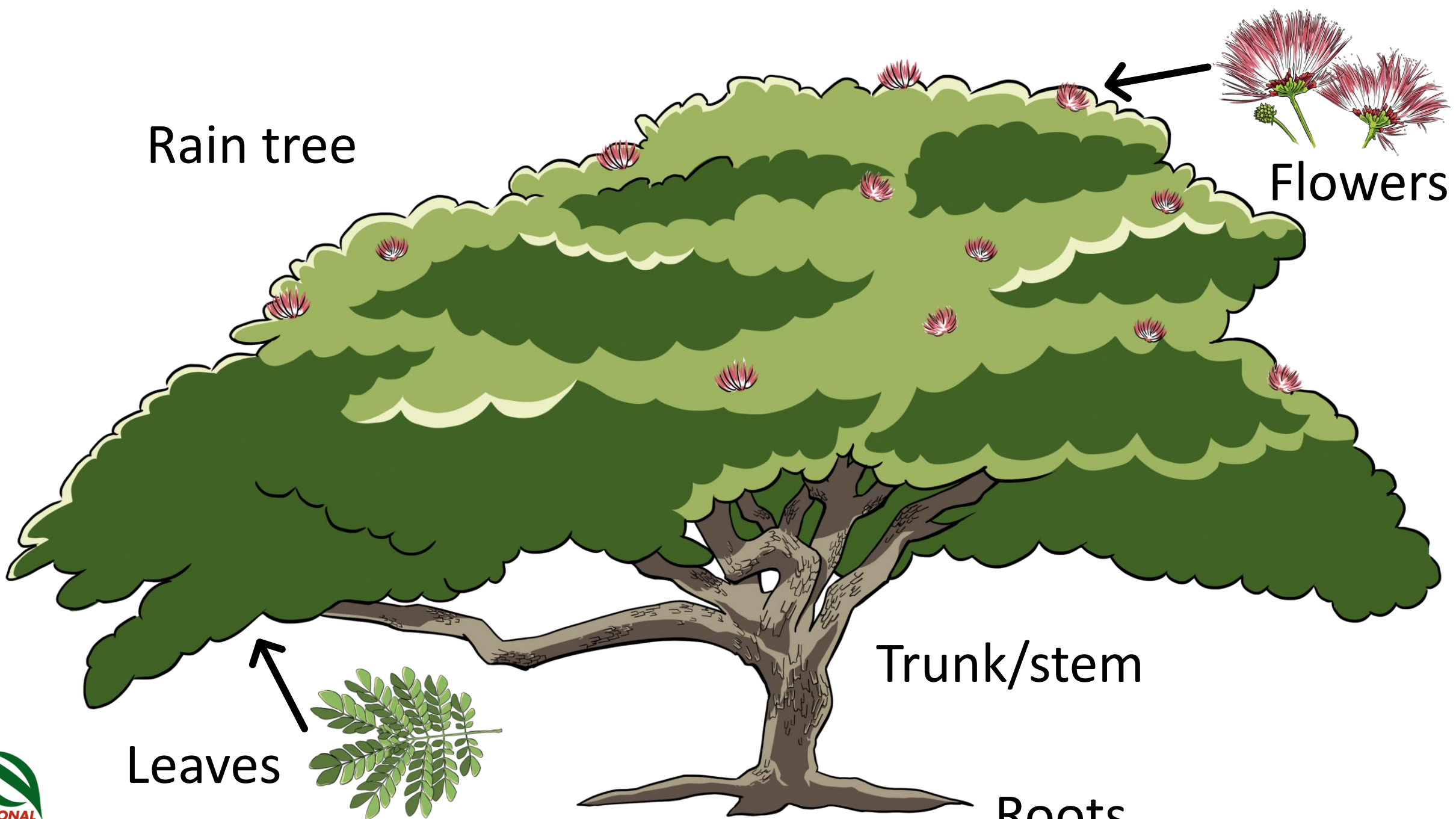
Rain tree

Flowers

Trunk/stem

Roots

Leaves

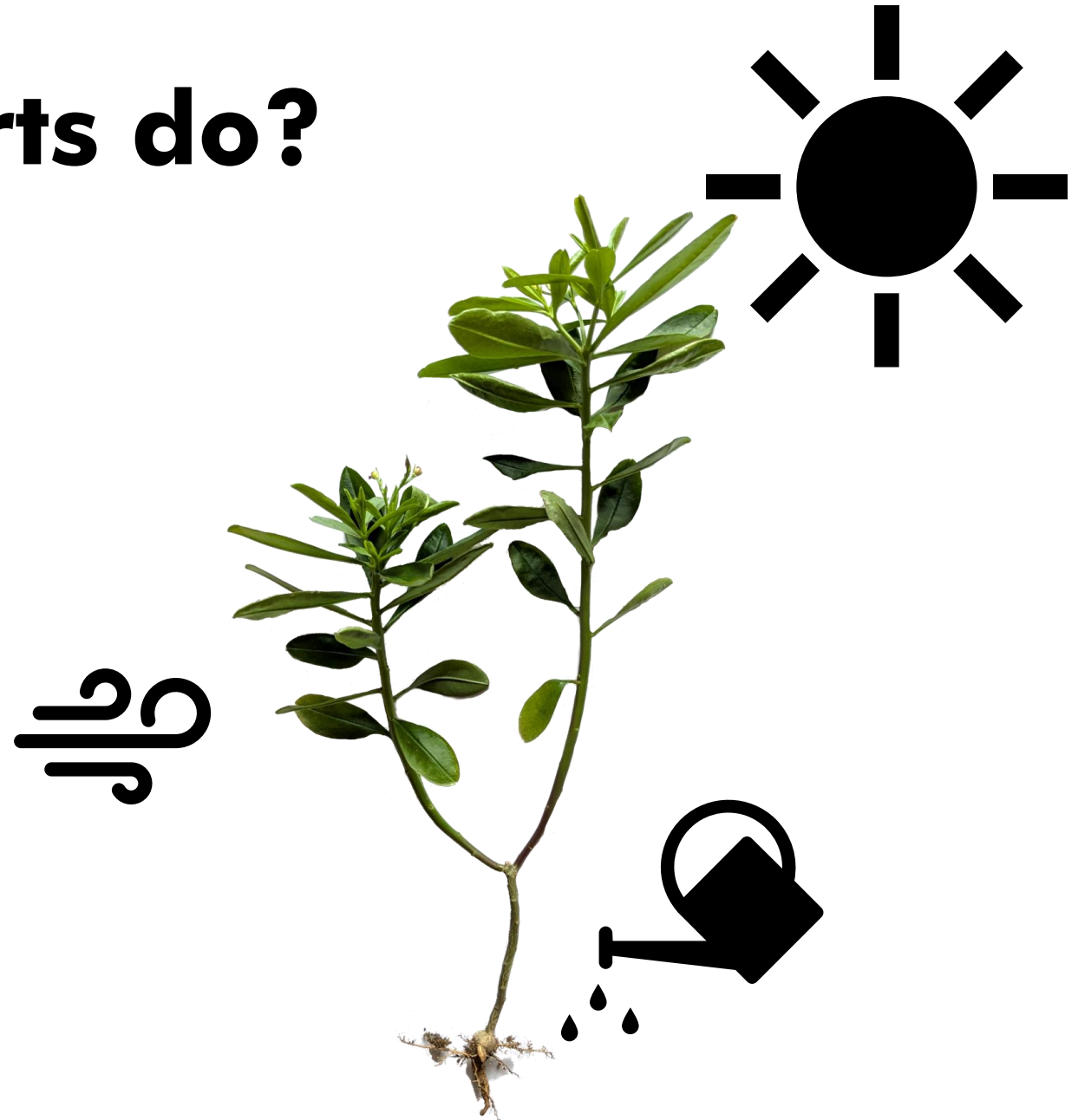




Activity:
Visit a garden and
identify plant parts!

What do plant parts do?

- Roots:
 - Hold plants in the soil
 - Absorb water, nutrients, and air
- Stems
 - Transport water from the roots to the rest of the plant
 - Are where leaves and flowers grow
- Leaves
 - Help the plant breathe
 - Make food for the plant from water, air, and sunlight
- Flowers
 - Become fruits and seeds after pollination



**Can you draw and label your plant?
What does each part do?
Draw it in your plant journal!**



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Kang Kong



Thai Basil

Want to learn more about gardening?

- Visit a garden!
 - Community Gardens: <https://gardeningsg.nparks.gov.sg/get-involved/cib/about/>
 - The Jacob Ballas Children's Garden: <https://www.nparks.gov.sg/sbg/our-gardens/bukit-timah-core/jacob-ballas-childrens-garden>
 - The Jurong Lake Gardens: <https://juronglakegardens.nparks.gov.sg/>
 - HortPark: <https://www.nparks.gov.sg/visit/parks/park-detail/hortpark>

Want to learn more about gardening and our City in Nature?

- Explore our online resources:
 - GardeningSG: <https://gardening.sg.nparks.gov.sg/>
 - NParks YouTube:
https://www.youtube.com/watch?v=f_Uoug7ZSeg&list=PL1_Eb2Fa0jUdX2KO14mL-StIn-EdSUqzF
 - NParks learning resources:
<https://www.nparks.gov.sg/learn/resources>