



For more resources,
visit plantheroes.org



Follow us on social media!



@PlantHeroes

LOOKING AT LEAVES JOURNAL

A program of the

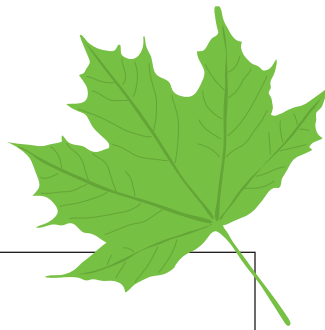


American
Public Gardens
Association

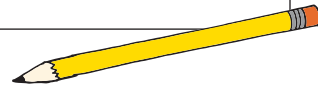
In partnership
with the



LOOKING AT LEAVES



Find a leaf to observe on a plant.
What size is it? How does it feel?
What shape is it? Sketch your leaf
and write about its unique features.



Describe the habitat the plant is growing in.

Now find a leaf to look at on a plant that
lives in a different habitat. How are the
leaves similar? How are they different?
Share your observations below.



Sketch of My Leaf

Draw your leaf and label all its unique adaptations.

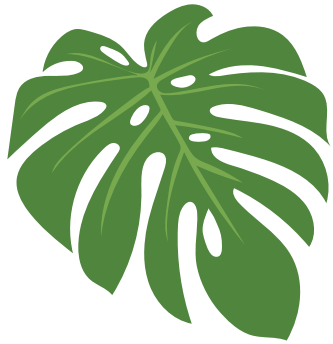
What adaptations does your leaf have?

How do these adaptations help it to survive?

Name your plant based on the unique features of its leaf!
My plant's name is

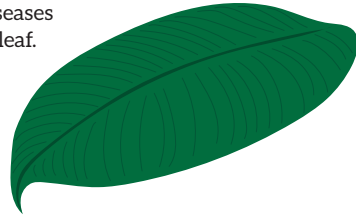
LEAF ADAPTATIONS SEARCH SHEET

How many leaf adaptations can you find?



Large holes in leaves

These holes drain water quickly to prevent diseases from growing on the leaf.



Drip tips

These pointed tips direct water off leaves, enabling them to dry quickly after a rain shower.



Silvery-colored leaves

The silver color reflects sunlight, preventing the leaves from getting a sunburn!



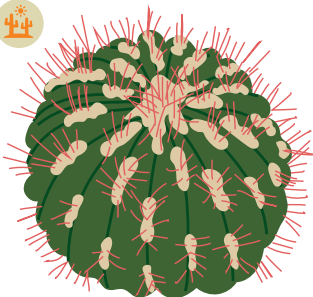
Hairy leaves

Hairs on leaves protect the plant from drying out in the wind.



Spines

Ouch! Spines protect leaves from being eaten.



Long, narrow leaves

The shape of these leaves prevents the loss of water.



Swollen, fleshy leaves

These leaves are filled with water, helping the plant to survive in dry environments.



Needlelike leaves

These leaves enable the plant to photosynthesize all year long in cold, dry environments.



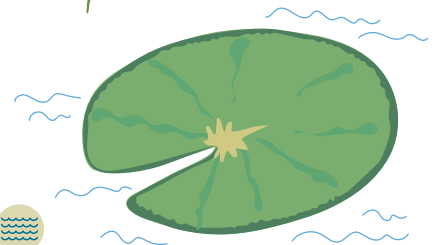
Finely dissected leaves

Water moves easier through dissected leaves, preventing them from tearing.



Floating leaves

Horizontal leaves that float on water enable the plant to capture more sunlight for photosynthesis.



Habitat Hints

Use the habitat icons to help you know where to look!



Alpine



Aquatic Habitats



Desert



Prairie



Temperate Forest





















Rain Forest

CREATE YOUR OWN LEAF

Now use your imagination to invent a super leaf adapted to survive in the habitat of your choosing.

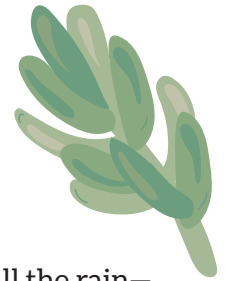
Circle your choices below to describe the environment where your plant lives.

My plant lives in the:					
 Alpine	 Aquatic Habitats	 Desert	 Prairie	 Temperate Forest	 Rain Forest
The temperature my plant thrives in is:			My plant needs this amount of water:		
 Cold	 Warm	 Hot	 dry	 average	 wet
My plant grows in:			The leaves of my plant are protected by:		
 shade	 part shade	 sun	 hair	 spines	 poison

Have you ever wondered why plant leaves come in so many different shapes, sizes, colors, and textures?

Plants live in many different environments. These environments can be hot or cold, dry or wet, windy or calm. All plants have **adaptations**, characteristics that help them meet their needs and survive in their environments. Variations in leaf shape, size, texture, and color are adaptations the plant uses to survive.

In desert habitats—which have extreme temperatures, lots of wind, poor soil, and little rain—leaves are fleshy to store water.



In a rain forest—where it is shady, hot, and humid from all the rain—leaves are large to collect more sunlight for photosynthesis. They too have a waxy texture to their leaves. However, this texture allows the rain to roll off the leaves quickly. The leaf’s surface dries quicker so that disease does not grow and harm the plant.

Use the search sheet on the following pages to discover more amazing leaf adaptations.

Did you know? Some leaves contain poisons or glass-like crystals called “silica.” These chemicals protect the leaves from being eaten by predators.

