

Plant Parts

Plant Parts

Yesterday we learned that plants are living things. Don't forget that living things need food, water, air, and light. Living things also reproduce, or create more of themselves. I am going to read you a list of things--some that are living and some that are not. Thumbs up for living. Thumbs down for nonliving.

Introduction to Plants



Thumbs Up = living

Thumbs Down = Nonliving



desk



Introduction to Plants



Thumbs Up = living

Thumbs Down = Nonliving



tree





Introduction to Plants



Thumbs Up = living

Thumbs Down = Nonliving



pencil





Introduction to Plants



Thumbs Up = living

Thumbs Down = Nonliving



a rosebush





Introduction to Plants



Thumbs Up = living

Thumbs Down = Nonliving



mouse





Introduction to Plants

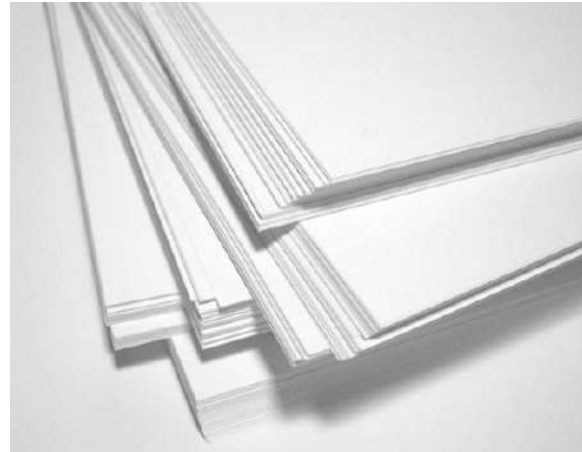


Thumbs Up = living

Thumbs Down = Nonliving



paper





Plant Parts

Do you remember the four things that plants need to survive? Plants need food, water, air and light to survive.

Plant Parts

I need a few volunteers to stand up. There are many ways these students are different. They have different names, live in different places, are different sizes and are wearing different clothes. How are these standing students similar? They are all human beings and they all have similar body parts. Thanks...you may be seated.

Plant Parts

Even though there are many different plants, all plants have similar parts. The main topic, or main idea, in this lesson is plant parts. Listen carefully to the read aloud to learn more about the topic: The different parts of plants and how these different parts use nutrients (or food), water, air and light.

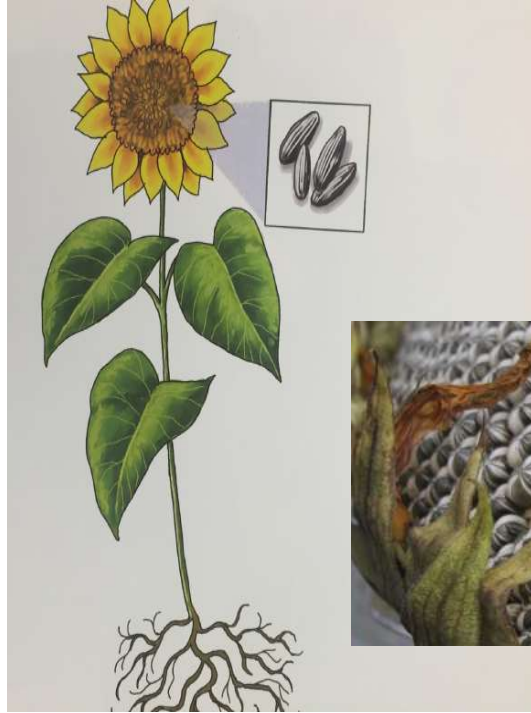
Plant Parts



Even though there are many, many different kinds of plants living in our world, all plants need nutrients (or food), water, air, and light.

Plant Parts

What do you see in this picture?



Plant Parts



Most plants also have similar basic parts--**roots, stems, leaves, flowers, and seeds.** Here the word leaves means the parts of plants that make food for the plant.

Plant Parts



There word leaves can have other meanings. The word leaves also means to go away from a place.

Plant Parts



Take a look at this sunflower. The parts of the plant you see down here at the bottom are the roots. The roots of the plant are covered with soil.

Plant Parts



So when we see plants growing in nature, we usually aren't able to see the roots unless we take the plants out of the ground.

Plant Parts



The plant's roots reach down into the soil and grow underground. They help to hold the plant in place in the soil. But most important, the roots take up water and nutrients that are in the soil.

Plant Parts



Nutrients help plants grow and stay healthy just like vitamins help you grow and stay healthy. The water and nutrients move through the roots up into the stem of the plant, which holds the plant up tall, toward the light.

Plant Parts



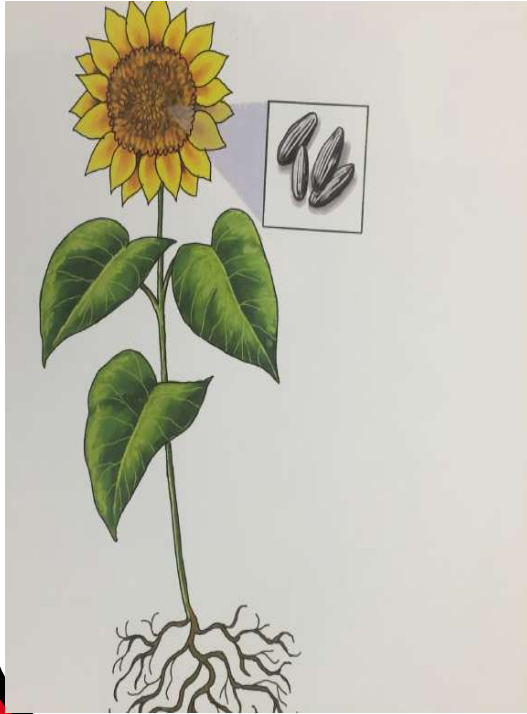
As the water and nutrients travel up the stem, they are able to reach other parts of the plant, like the leaves. The leaves are the parts of a plant that are attached to and grow out from the stem. The leaves are usually green, but they can be other colors as well.

Plant Parts



Many plants have flowers which are also called blossoms. Look at the blossoms on this sunflower plant. Around the outside, it has many bright yellow petals. The flower petals of different plants come in every color you can imagine!

Plant Parts



Now look in the center part of the sunflower blossom, the part that has many petals around it. This part of the plant is made up of many small seeds. One sunflower seed is only about the size of one of your fingernails! If the seeds of the sunflower plant are put into the soil, they will make a new sunflower plant.

Plant Parts



Sometimes people eat the seeds from some plants. You may have even tasted a sunflower seed yourself.

Plant Parts



Even though most plants have the same basic parts--roots, a stem, leaves, flowers, and seeds--these parts may look different on different kinds of plants. These beautiful flowers are from many different kinds of plants.

Plant Parts



Did you notice that, not only are the colors of the flowers different, but the flower petals from different plants have different shapes, too?

Plant Parts



This apple tree has the same parts as the other plants that we have been looking at. We can't see any apples because this picture was taken in the spring, when the blossoms, or flowers, come out. The apples will start growing in the summer and will be ready for picking in the fall.

Plant Parts



We can't see the roots of the apple tree because they are growing underground, but we can see several other parts. We can see many stems on the tree. The smaller stems are called branches. Do you see the apple blossoms and the leaves? There are many, many leaves attached to the branches on this apple tree.

Plant Parts



The largest part of the tree is called the trunk. The outside of the trunk is covered in bark. Bark is kind of like clothing for trees: it protects the inside of the tree.

What do you think this bark feels like?

Plant Parts



Here are some leaves from different kinds of trees. Take a close look, and you will notice that the leaves have different shapes. In fact, one way to tell what kind of tree you are looking at is to look closely at its leaves. The leaf on the top left is from a sugar maple tree. The leaf below that is from a white oak tree.

Plant Parts



The leaf on the top right is from a witch hazel tree, and the leaf below that is from a black oak tree.

*Remember, many plants--not just trees--have leaves. In fact, leaves are especially important to the **survival** of all plants.*

Plant Parts



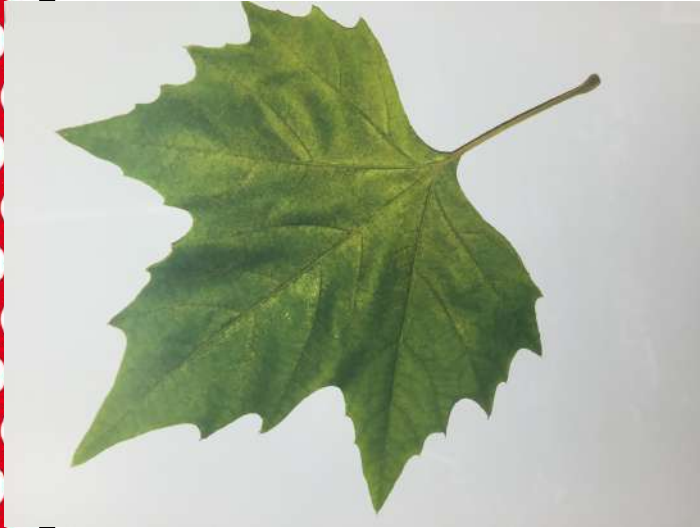
Leaves are especially important in making sure that plants stay alive.

Plant Parts



When light shines on the green leaves of any plant, the leaf absorbs--or soaks up--energy from the light. Through an amazing process called photosynthesis, the leaf uses the light to turn the water and air already in the plant into food for the rest of the plant!

Plant Parts



Do you remember earlier that we said that the roots and stem of a plant move water and nutrients from the soil to the other parts of a plant, such as the leaves? During photosynthesis, water, nutrients, air, and light come together in the plant's leaves.

Plant Parts



This is how plants make food for themselves. It's a good thing, too, because plants can't move like animals or people, so they aren't able to go find food somewhere else. Plants have to make food for themselves. Once the water and nutrients are made into food through photosynthesis, parts of the leaves called the veins carry the food back to the stem.

Plant Parts



From there, food is taken to the rest of the plant where it is needed.

Plant Parts



Now you have learned about most of the basic parts of many plants. Plants begin as seeds, which sprout and grow roots, stems, leaves, and then flowers. The roots, stems, and leaves work together with water, nutrients, air, and light to make food for the plant through photosynthesis. Say the word three times to help you remember it.

Plant Parts

Comprehension Questions:

Literal

Let's point out and name the different parts of a plant.



Plant Parts

Comprehension Questions:

Literal

Which part of the plant keeps it in the ground and takes in nutrients and water for the plant? (THE ROOTS)



Plant Parts

Comprehension Questions:

Literal

What part of the plant supports the plant and moves water and nutrients to the rest of the plant?

(THE STEM)



Plant Parts

Comprehension Questions:

Inferential

PLEASE answer in
COMPLETE sentences.

What would happen if a plant didn't have roots?

Plant Parts

Comprehension Questions:

Inferential

PLEASE answer in
COMPLETE sentences.

What would happen if a plant didn't have a stem?

Plant Parts

Comprehension Questions:

Inferential

PLEASE answer in
COMPLETE sentences.

What would happen if a plant didn't have leaves?

Plant Parts

Comprehension Questions:

Evaluative

Who can trace the upward path the water and nutrients take from the ground to the roots, through the stem, and finally to the leaves.



Word Work

Explicit Vocabulary Instruction

Plant Parts

*In the read aloud you heard, "In fact, leaves are especially important to the **survival** of all plants."*

*Say the word **survival** with me.*

Whisper survival to the ceiling.

Whisper survival to your neighbor.

Plant Parts

Survival *is the act of staying alive.*

Food, water, air, and light are important to a plant's
survival.

Plant Parts

*Why are these things important to a plant's **survival**?
Try to use the word survival when you tell about it.*

*“_____ is important to a plant's **survival** because....”*

Plant Parts

*What's the word we have been talking
about?*

Let's clap it out.

Plant Parts

Please go to the table with your name on it, where you will cut out and glue the plant parts onto a separate sheet of paper to make a whole plant.

Plant Parts

