



Science Virtual Learning

2nd Grade

Growth of Plants

April 17, 2020



Review Vocabulary

A plant needs these 5 things!

1. **Air:** Plants need to breathe.
2. **Sun:** Plants need energy to make food.
3. **Water:** Plants need to stay hydrated.
4. **Soil:** A plant needs to bury its roots.
5. **Space:** A plant needs room to grow.

Click below to hear a song about all the things plants need!

Click Here!

[The Needs of a Plant](#)



Click below to hear a song about all the things plants need!

Click Here!

[What a Plant needs
to Survive](#)



Plants need air!

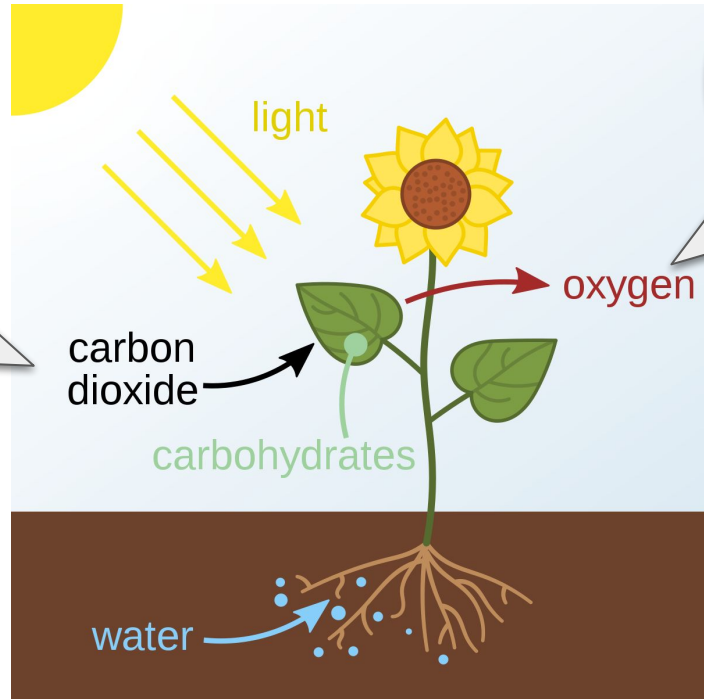


- Plants breathe through tiny holes in their leaves.
- Plants breathe in carbon dioxide.
- Plants breathe out oxygen.
- Animals need this oxygen to breathe!



Plants need air!

A plant cannot make food without a gas in the air called **carbon dioxide**!



A plant uses the carbon to make food, and releases the **oxygen** back into the air!



Plants need sunlight!

- Plants get their energy from the sun!
- Plants cannot eat food like us.
- Plants use solar energy to make their own food!
- Plants make a sugar called glucose.



Plants need sunlight!

A plant uses solar power!



A leaf uses **light energy** as power to make food, like a solar panel uses the sun's energy for power!



Plants need water!

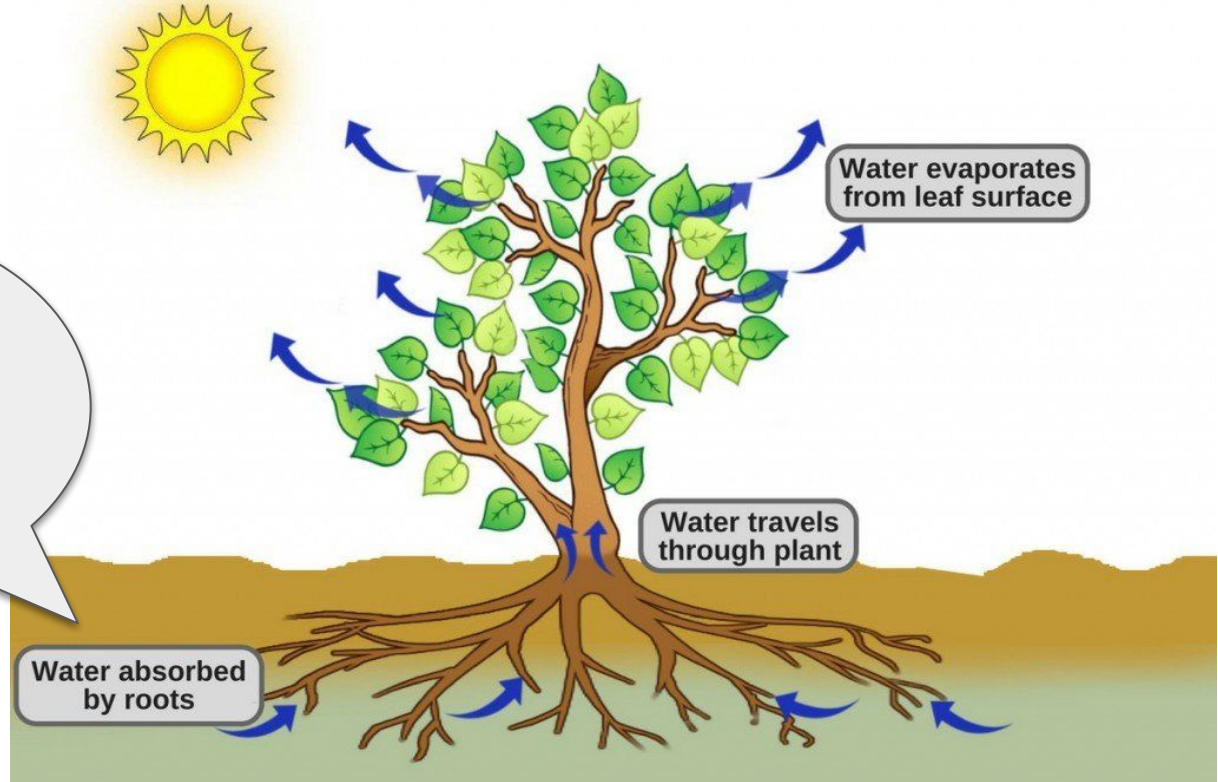


- Plants wilt without water.
- All living things need water.
- Living things are made mostly out of water!
- Plants cannot survive without water.

Plants need water!



Plants **collect water** from the ground using roots! Plants help soak up the rain!



Water absorbed by roots

Water travels through plant

Water evaporates from leaf surface



Plants need soil!

- Plants need soil or dirt to put down their roots.
- Roots keep a plant held into the ground.
- A plant would blow away without roots!
- Plants get nutrients from the soil.

Plants need soil!

Roots keep the dirt from washing away!



Roots hold a plant in the ground!

Plants need space!

- Plants need room to grow.
- Plants needs room to spread their roots.
- If there are too many plants close together, they might not get enough resources.



Plants need space!



There is empty space between each plant!

This farmer is leaving room for each plant to grow!

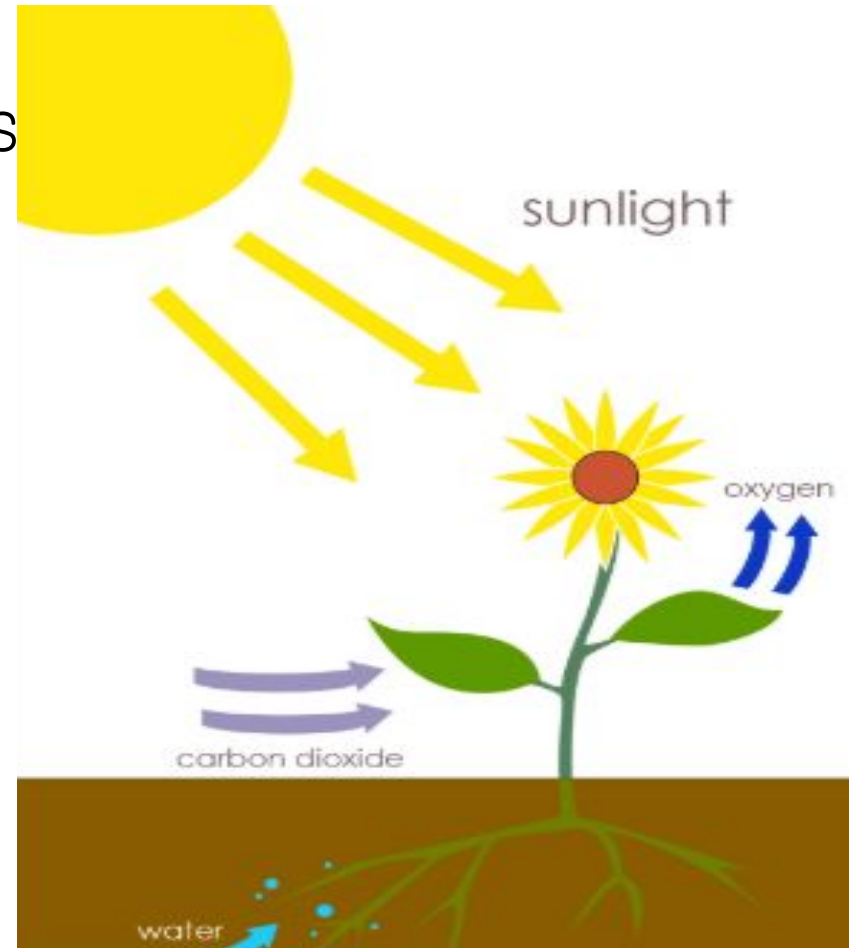
Engage: Practice #3

What happens when plants needs are met?

Plants can grow and change!

Plants can reproduce

Plants can survive and thrive!



Engage:

Test your
knowledge!

Try these on your own!

Check your answers
on the next slide!

1. What jobs do the roots do?
 - a. Hold the plant down and collect water.
 - b. Make the food and collect air.
2. What jobs do the leaves do?
 - a. Hold the plant down and collect water.
 - b. Make the food and collect air.
3. What three things do plants use to make food?
 - a. sunlight, sugar and starch
 - b. salt and water
 - c. hot chips
 - d. sunlight, air, and water

Engage:

Test your
knowledge!

Check your
answers here!

1. What jobs do the roots do?
 - a. **Hold the plant down and collect water.**
 - b. Make the food and collect air.
2. What jobs do the leaves do?
 - a. Hold the plant down and collect water.
 - b. **Make the food and collect air.**
3. What three things do plants use to make food?
 - a. sunlight, sugar and starch
 - b. salt and water
 - c. hot chips
 - d. **sunlight, air, and water**

Practice on your own!

Walk around your house
and look at one plant!

Write the name of the
plant your sheet!

Mark if the plant is
having each of its
needs met!



PLANT NEEDS | Kindergarten through 2nd






Names: _____

Date: _____

PLANT NEEDS HUNT

Walk around your Learning Garden and look at ONE plant, write the plant name below. Decide if the plant has its plant needs met. Mark either the NEEDS or HAS ENOUGH column with a + symbol.

PLANT NAME: _____

PLANT NEEDS:	NEEDS:	HAS ENOUGH:
 LIGHT		
 AIR		
 WATER		
 NUTRIENTS		
 SPACE		