

## Science Virtual Learning

## 2nd Grade Growth of Plants April 16, 2020



### 2nd grade Science

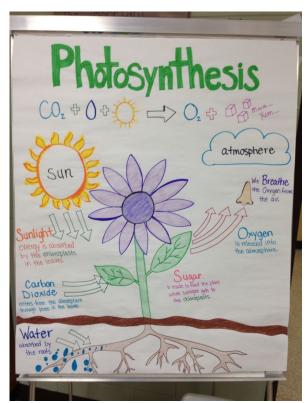
Lesson: April 16th

#### Learning Target:

- 1. Students will identify cause and effect by working with one variable at a time.
  - 2. Students will carry out the scientific process.
  - 3. Students will identify the basic needs of plants.

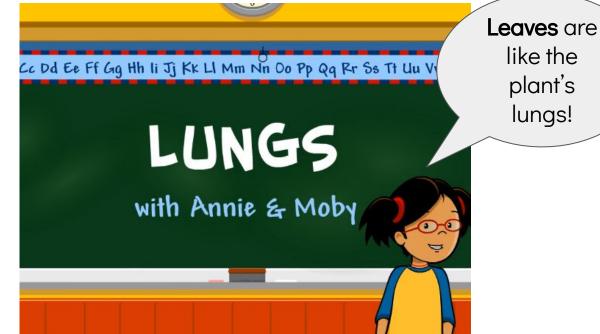
## Background: Review this vocabulary before starting today's lesson!

- Inhale: The act of taking in air.
- **Exhale**: The act of letting out air.
- Oxygen: A gas necessary for breathing.
- Carbon Dioxide: A gas necessary for breathing.
- **Breathe:** The act of taking air in and letting it out.
- **Respiration**: The exchanging of gasses while breathing.



### Let's get started!

Watch this video to engage your prior knowledge about breathing!



Human

Click Here!

Respiration

Does it breathe air?

- a. Yes, it breathes!
- b. No, it cannot breathe.



Does it breathe air?

- a. Yes, it breathes!
- b. No, it cannot breathe.



Does it breathe air?

- a. Yes, it breathes!
- b. No, it cannot breathe.



Does it breathe air?

- a. Yes, it breathes!
- b. No, it cannot breathe.



Does it breathe air?

- a. Yes, she breathes!
- b. No, she cannot breathe.



Does it breathe air?

- a. Yes, she breathes!
- b. No, she cannot breathe.



Does it breathe air?

#### Is it alive?

- a. Yes it breathes!
- b. No, it cannot breathe.



This one is

challenging

more

isn't it?

Does it breathe air?

- a. Yes it breathes!
- b. No, it cannot breathe.



### Let's get started!

Watch this video to learn how plants respire, or breathe!

Can plants breathe?



Click Here!

**Plant Respiration** 

### Explore: Practice #1

Try this! Breathe against a window. What do you see?

You are breathing out air!



Tiny water droplets form on the window.

### Explore: Experiment

Do plants need air? Try this at home!

Find a plant!

Put a bag sealed tight around some of the leaves.

Push all the air out of the bag before you seal it!

These leaves have air!



The

air!

### Explore: Experiment

Form a hypothesis: An educated guess!

Which part of the plant do you think will survive over time?

- a. The leaves with air.
- b. The leaves without air.

How do you know?

These leaves have air!



The leaves in the bag have no air!

### Practice on your own!

See next slide for answers!

Think about things that are **living** and **nonliving** to help you fill out this chart!

Draw a picture with labels in each box!

#### Create a picture chart of things that need air or do not need air!

Things that need air!	Things that do <u>NOT</u> need air!
	1
	1

#### Self Check:

Go tell someone in your home your answers.



- 1. Was this lesson \_\_\_\_?
  - easy
  - ☐ just right
  - hard

2. Do you need air? Does a plant need air? Tell someone how you know!