

Name \_\_\_\_\_

# SUNLIGHT SCIENCE



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Have you ever wondered how plants eat? Plants have a special superpower: they can make their own food! When plants make their own food, it is called **photosynthesis**.

To do **photosynthesis**, plants need sunlight, which helps them transform the air they breathe in (carbon dioxide) and water into sugars, or food! When plants make food, they also make more air (oxygen) that people breathe in. Without plants, we would not have fresh air to breathe, or food to eat. (Thank you, plants!)

What do you think will happen to photosynthesis if a plant did not get any sunlight? Let's do an experiment to find out!

Materials:

- Two plants from the Farmstand
- Plastic or paper cup, or dark construction paper

**Science Question: Do plants need sunlight to grow?**

**Plant:** \_\_\_\_\_

BEFORE	DATE:	AFTER	DATE:
I think the plant with sunlight will...		I notice the plant with sunlight...	
I think the plant without sunlight will...		I notice the plant without sunlight...	

# “Sunlight Science”

## Activity Instructions

1. Set up the experiment. Choose a plant from the Farmstand you would like to test. We recommend selecting a plant that you have at least two of the same kind, and are in the early stages of growth. Use a cup, dark-colored construction paper, or other material to cover one of the plants to block the sunlight.
2. Make a hypothesis! Write or draw in your journal to make the best guess on how the plant will grow with sunlight versus no sunlight. Compare and contrast different answers and share the reasons behind your prediction.
3. Wait and observe. Check on the plants daily and record findings or check weekly overtime.
4. What do you wonder? What did you notice after the experiment? Compare observations to predictions. Was there anything that surprised you? How could you try this experiment differently?



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