

# 3<sup>rd</sup> Grade Science

## Week 9

| Your Week at a Glance   |
|---|
| <ul style="list-style-type: none"><li>• What Plants Need</li><li>• NGSSS: SC.3.L.17.2</li></ul> |

- What Plants Need
- NGSSS: SC.3.L.17.2

**Student Name:** \_\_\_\_\_

**Teacher Name:** \_\_\_\_\_

**School:** \_\_\_\_\_

**SC.3.L.17.2** Recognize that plants use energy from the Sun, air, and water to make their own food.

## What Plants Need

### Living Things Need Food

Living things need food to survive. People and other animals get the food they need by eating plants or animals. If you need food, you might eat some chicken. You might eat an apple. Food has energy that your body needs. Food has matter your body needs, too.

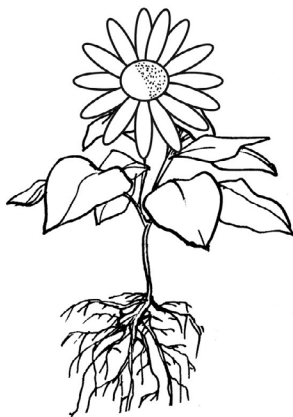
Plants also need food for matter and energy. But plants cannot eat like animals. Instead, plants make food.

### Photosynthesis and Plant Parts

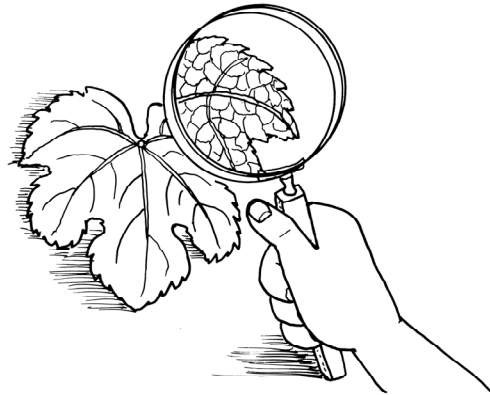
**Photosynthesis** is how plants make food. It happens in plants' leaves. Plants need air, water, and energy from the sun for photosynthesis. All three things are needed for a plant to make food.

A plant takes in air through its leaves. There are tiny holes in the bottom of leaves. Air can enter and leave a plant through these holes.

Plants take in water through their roots. The water moves up the stem to the leaves. In the leaves, the water is used to make food.



Leaf cells have special parts that capture sunlight. Light is a form of energy. Plants use light energy when they make food.



### How Photosynthesis Works

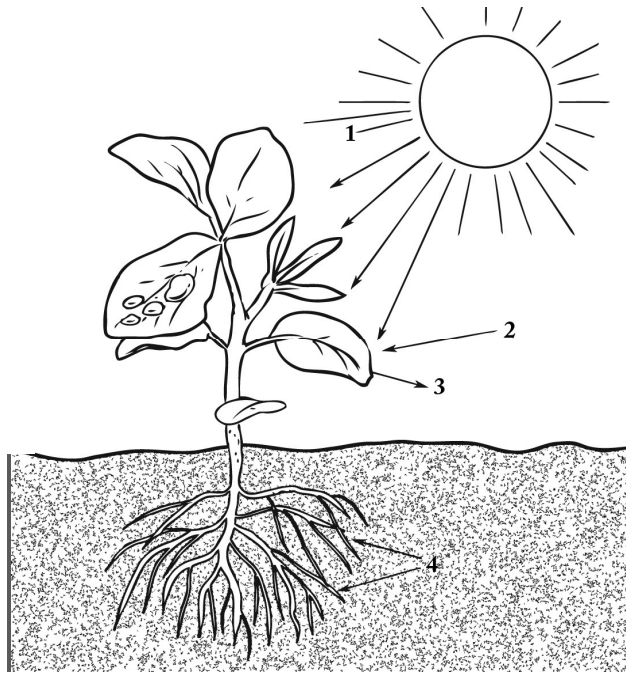
Leaf cells have many parts that help make food. In the leaf, the matter in air and water are changed to a new kind of matter—food. The food holds some of the energy that came from sunlight.

Plants use food to get the matter and energy they need. Sometimes they store extra food in their roots. Then they can use it when they need it.

During photosynthesis, some new materials are made that the plant does not need. Those materials leave the plants through their leaves.

# Student-Response Activity

Use this picture about photosynthesis to answer questions 1–3.



**1** Look at the arrows pointing into the leaves. Which material that a plant needs to make food comes in through the leaves?

---

---

---

**2** Look at the arrows pointing into the roots. Which material that a plant needs to make food comes in through the roots?

---

---

---

**3** Why is there an arrow that points out of the leaves?

---

---



## Benchmark Assessment SC.3.L.17.2

Fill in the letter of the best choice.

- 1** Where do plants get the energy they need to make food?

  - (A) air
  - (B) soil
  - (C) Sun
  - (D) water
- 2** What will happen to a plant that gets air and water but no light?

  - (F) It will make lots of food.
  - (G) It will make some food.
  - (H) It will make the light it needs.
  - (I) It will make no food.
- 3** Which plant part takes in light?

  - (A) flower
  - (B) fruit
  - (C) leaf
  - (D) root
- 4** Which lists what a plant needs to make food?

  - (F) water, air
  - (G) soil, light
  - (H) soil, air, light
  - (I) light, air, water
- 5** How does a plant get air?

  - (A) through its roots
  - (B) through its leaves
  - (C) through its stem
  - (D) through its flowers