

Grade 3

Reading - Science

The Wonders of Photosynthesis

In the heart of every green plant lies a tiny secret: a process called photosynthesis. Imagine if you could eat sunlight and turn it into energy. Sounds like something out of a fairy tale, doesn't it? Well, plants can do it, and they've been doing it for millions of years!

Let's dive into this magical process. Photosynthesis is how plants make their food. The main ingredients they need are sunlight, water, and carbon dioxide. Plants have green parts called leaves. If you've ever touched a leaf, you might have noticed it feels a bit flat. Inside these flat leaves are tiny structures called chloroplasts. These chloroplasts contain a pigment called chlorophyll, which gives plants their green color.

Chlorophyll is like a little chef inside the leaf. When sunlight shines on the leaf, chlorophyll captures the energy from it. This energy helps the plant turn water and carbon dioxide into sugar and oxygen. Sugar is the food that gives plants the energy they need to grow, and oxygen is a gas that they release into the air, which we breathe in. Isn't it amazing? We breathe out carbon dioxide, which plants take in, and they give out oxygen, which we breathe in!

So, the next time you're outside on a sunny day, take a moment to appreciate the plants around you. They're not just sitting there looking pretty. They're busy making food and helping us breathe. And all they ask for in return is a little sunlight.

Multiple Choice Questions:

1. What is the process called where plants make their food?
 - a) Respiration
 - b) Digestion
 - c) Photosynthesis
 - d) Fermentation

2. What are the main ingredients plants need for photosynthesis?
 - a) Air, water, and soil
 - b) Sunlight, water, and carbon dioxide
 - c) Sunlight, soil, and air
 - d) Water, air, and nitrogen

3. What gives plants their green color?
 - a) Oxygen
 - b) Sunlight
 - c) Chloroplast
 - d) Chlorophyll

4. What do plants release into the air during photosynthesis?
 - a) Carbon dioxide
 - b) Nitrogen
 - c) Sugar
 - d) Oxygen

5. Which part of the plant contains chloroplasts?

- a) Roots
- b) Stems
- c) Flowers
- d) Leaves

Answers and Explanations:

1. c Photosynthesis

Plants make their food through the process of photosynthesis.

2. b Sunlight, water, and carbon dioxide

These are the primary ingredients that plants need to carry out photosynthesis.

3. d Chlorophyll.

Chlorophyll is the pigment that gives plants their green color.

4. d Oxygen Plants release.

Oxygen during photosynthesis, which we then breathe.

5. d Leaves.

Leaves contain chloroplasts, which have the chlorophyll needed for photosynthesis.