Name: Date: Score: / 8

Photosynthesis: Learn and Practice

How plants turn light into food

Read each question. Circle the best answer.

💡 Photosynthesis

- Plants use light energy to turn carbon dioxide and water into sugar.
- Oxygen is given off as a waste product.
- This happens inside chloroplasts, mostly in leaves.
- light with carbon dioxide and water: sugar and oxygen

1 How does water get from the soil up to the leaves?

A. Through the flowers B. Through the seeds
C. Through tubes called xylem
D. Through the air

2 ☀️ What energy source do plants use for photosynthesis?

A. Wind B. Light C. Heat from the soil
D. Sound

3 Which gas do plants give off during photosynthesis?

A. Carbon dioxide B. Hydrogen C. Oxygen
D. Smoke

4 🍬 What food do plants make in photosynthesis?

A. Soil B. Sand C. Salt D. Sugar

5 🍃 What green pigment captures light energy?

A. Calcium B. Melanin C. Chlorophyll
D. Keratin

6 Tiny pores on a leaf let gases in and out. What are they called?

A. Stomata B. Seeds C. Petals D. Roots

7 Where in a plant cell does photosynthesis happen?

A. Cell wall B. Chloroplast C. Vacuole
D. Nucleus

8 Which gas do plants take in for photosynthesis?

A. Carbon dioxide B. Helium C. Neon
D. Oxygen

✏️ Explain it! Write two facts you learned about photosynthesis.

ANSWER KEY

Photosynthesis: Learn and Practice (answers)

How plants turn light into food

Read each question. Circle the best answer.

1 How does water get from the soil up to the leaves?

A. Through the flowers B. Through the seeds

C. Through tubes called xylem

D. Through the air

Roots soak up water, and tubes called xylem carry it up the stem to the leaves.

2 ☀️ What energy source do plants use for photosynthesis?

A. Wind **B. Light** C. Heat from the soil

D. Sound

Plants capture light energy, usually from the Sun, to power photosynthesis.

3 Which gas do plants give off during photosynthesis?

A. Carbon dioxide B. Hydrogen **C. Oxygen**

D. Smoke

Oxygen is released as a waste product. Lucky for us, because we need it to breathe!

4 🍬 What food do plants make in photosynthesis?

A. Soil B. Sand C. Salt **D. Sugar**

Plants make sugar, which they use for energy and to build new parts.

5 🍃 What green pigment captures light energy?

A. Calcium B. Melanin **C. Chlorophyll**

D. Keratin

Chlorophyll absorbs light energy and gives leaves their green color.

6 Tiny pores on a leaf let gases in and out. What are they called?

A. Stomata B. Seeds C. Petals D. Roots

Stomata are tiny openings, mostly under the leaf, that let carbon dioxide in and oxygen out.

7 Where in a plant cell does photosynthesis happen?

A. Cell wall **B. Chloroplast** C. Vacuole

D. Nucleus

Chloroplasts contain the green pigment that captures light, so photosynthesis happens there.

8 Which gas do plants take in for photosynthesis?

A. Carbon dioxide B. Helium C. Neon

D. Oxygen

Leaves take in carbon dioxide from the air and use it to build sugar.