

Photosynthesis Worksheet

Name: _____

Date: _____

1. Drag and drop the correct parts into the equation.

Diagram illustrating the chemical equation for photosynthesis:

$$6 \text{ [] } + 6 \text{ [gas] } \rightarrow \text{ [] } + 6 \text{ [] }$$

Arrows indicate the flow of components into the equation boxes:

- From the left: 6 []
- From the middle: 6 [gas]
- From the right: []
- From the far right: 6 []

Below the equation, there are two empty boxes for the products:

[] []

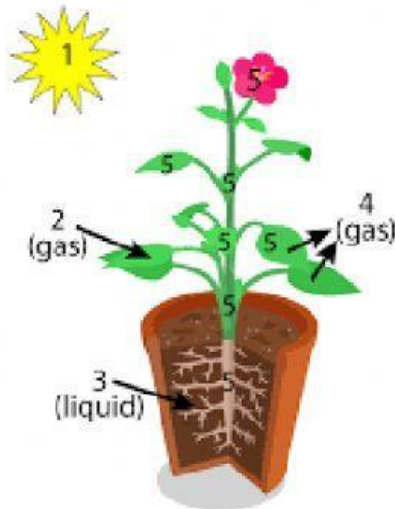
Labels for the components:

- Sun
- Oxygen Gas
- Glucose
- Water
- Carbon Dioxide
- C₆H₁₂O₆
- H₂O
- O₂
- CO₂

Categories:

- Products
- Reactants

2. Select the correct labels.



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3. Fill in the blanks below.

Photosynthesis is a process that plants use to breathe and to make food. They use the _____ from the sun, along with _____ from the soil and a gas called _____ to make _____, which feeds producers. During this process, _____ is released into the air. This process happens in the _____ of the cell.

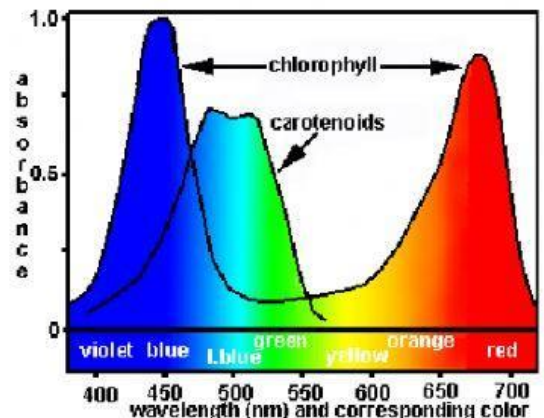
4. Answer the following questions.

- What is the waste product that is made in photosynthesis that is useful to humans? _____
- What is the major pigment in plants chloroplasts?

- Photosynthesis is how trees make food. _____

5. Use the table to fill in the blanks below.

Pigments can absorb and reflect different colors of light. Chlorophyll absorbs _____ light. Chlorophyll reflects _____ light. Carotenoids absorb _____ light. They reflect _____ light.



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6. Match the boxes on the right with the two stages of photosynthesis on the left.

Light
Dependent
Reaction

Chlorophyll
captures light

Light
Independent
Reaction

Glucose is
produced

Light
Dependent
Reaction

Energy and
CO₂ is
combined

Light
Independent
Reaction

H₂O is broken
down into
oxygen

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