

Photosynthesis Presentation

1. What is the source of energy in most ecosystems?

- The _____ ☺
- An _____ is a community of organisms that live in a particular area along with their nonliving environment.
- The process by which a cell captures energy in sunlight and uses it to make food is called _____.
- “troph” = food
- Autotrophs make their own _____.
- Auto = _____

- Heterotrophs get their food from something else (_____)
- Hetero = _____

2. Does a Zebra get its energy from the sun directly or indirectly?

- A zebra gets its food _____ from the sun.
- An organism that makes its own food is called an _____.
- An organism that cannot make its own food is called a _____.

3. Would you be considered a producer, consumer, or decomposer?

- You would be a _____. People do not get their energy direct from the sun. We get our energy indirectly from consuming organic matter such as plants or animals.

4. What is a producer?

- A producer is an organism that gets its food _____ from the sun, also called an _____.
- An example would be a plant.

5. What is a consumer?

- A consumer would be an organism that gets its food _____ from the sun.
- An example could be a lion.

6. What is a decomposer?

- A decomposer is an example of a _____ that gets its food from dead or decaying matter.
- Example would be a fungi...

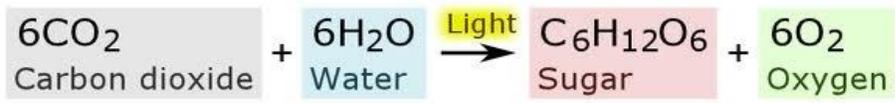
7. In what part of the plant does photosynthesis occur?

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- Photosynthesis occurs in the _____ of plants.
8. What is the organelle inside plant cells responsible for photosynthesis?
- The _____ are the organelles responsible for photosynthesis in a plant cell.
9. How many stages take place in photosynthesis?
- Photosynthesis takes place in _____ stages.
10. What happens during the first stage of photosynthesis?
- During the first stage of photosynthesis the plant gets its _____ from the sun.
11. What happens during the second stage of photosynthesis?
- During the second stage of photosynthesis the plant _____ its food.
12. What happens to water in stage one of photosynthesis?
- In stage one of photosynthesis water is broken down into _____ and _____.
 - **H₂O becomes Hydrogen and Oxygen**
13. What does Chlorophyll do?
- The main pigment for photosynthesis in chloroplasts is chlorophyll. Chlorophyll _____ light energy and converts it.
14. What enters the undersides of leaves and into the chloroplasts?
- _____ enters the underside of leaves and into the chloroplasts where it is used as a reactant in the chemical process of photosynthesis.
15. What two reactant compounds are used in the process of photosynthesis?
- Water (H₂O) and Carbon Dioxide (CO₂) are used as reactants in the process of photosynthesis.
 - A _____ is the substance that enters into a chemical reaction.
16. Almost all of this in Earth's atmosphere is produced through photosynthesis?
- Almost all of the Earth's _____ is produced through the process of Photosynthesis.
17. What two products are the result of photosynthesis?
- The two products produced as a result of photosynthesis are carbohydrates in the form of the sugar glucose and oxygen.
 - A _____ is a substance formed as a result of a chemical reaction.

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18. What is the equation for photosynthesis?



19. Illustrate the process of photosynthesis using a leaf.