

## PHOTOSYNTHESIS

\_\_\_ absorbed  
\_\_\_ air  
\_\_\_ alive  
\_\_\_ carbon dioxide  
\_\_\_ chlorophyll  
\_\_\_ chlorophyll  
\_\_\_ decreasing  
\_\_\_ energy  
\_\_\_ food  
\_\_\_ glucose  
\_\_\_ leaves  
\_\_\_ life  
\_\_\_ living things  
\_\_\_ minerals  
\_\_\_ mushrooms  
\_\_\_ oxygen  
\_\_\_ phloem  
\_\_\_ photosynthesis  
\_\_\_ pigment  
\_\_\_ plant  
\_\_\_ produce  
\_\_\_ producers  
\_\_\_ released  
\_\_\_ replenish  
\_\_\_ roots  
\_\_\_ stomata  
\_\_\_ sugar  
\_\_\_ sun  
\_\_\_ sunlight  
\_\_\_ water  
\_\_\_ water  
\_\_\_ xylem

1. In green plants **PHOTOSYNTHESIS** is the process by which chlorophyll changes sunlight, carbon dioxide, and water into **GLUCOSE**, a sugar.
2. During photosynthesis, green plants not only produce food, but they also produce **OXYGEN**, which all people, animals, and fish need to live.
3. Green plants use the glucose as **FOOD** and release the oxygen into the **AIR**.
4. Photosynthesis takes place in the **LEAVES** of living green plants.
5. Without photosynthesis, **LIFE** on earth or in the oceans could not exist.
6. Cutting down trees in the rain forests is depleting or **DECREASING** the amount of oxygen in the air!
7. The following ingredients are necessary for green plants to carry out photosynthesis:
  - (1) Only green plants can carry out the process of photosynthesis because green plants contain **CHLOROPHYLL**, a substance no other plant or animal contains.
  - (2) Chlorophyll is a **PIGMENT** found only in the leaves of green plants that makes them look green.
  - (3) Chlorophyll has the ability to trap the **ENERGY** of sunlight.
  - (4) Photosynthesis can only happen in green plants and in the presence of **SUNLIGHT**.
  - (5) Green plants absorb **CARBON DIOXIDE**, a gas in the air, through the leaves.
  - (6) Combined with **WATER** and **MINERALS** from the soil, green plants produce glucose, a **SUGAR** that is used to produce energy in green plants.
8. Green plants are called **PRODUCERS** by scientists because during photosynthesis they **PRODUCE** glucose and oxygen.
9. The **SUN** provides the power (energy) for photosynthesis.
10. There are tiny openings in the leaves, called **STOMATA**, in which oxygen is **RELEASED** and carbon dioxide is **ABSORBED**.
11. **MUSHROOMS** cannot produce their own food because they have no **CHLOROPHYLL** in their cells.
12. Mushrooms must live off other **LIVING THINGS**.
13. Water and minerals move up the stem from the **ROOTS** to the leaves through tubes made of **XYLEM**.
14. Xylem carries **WATER** to the leaves.
15. **PHLOEM** carries food from the leaves to other parts of the plant.
16. Which would eat sugar?
  - ① bison
  - ② rabbit
  - ③ **plant**
  - ④ hawk
  - ⑤ cat
17. Green plants keep humans, fish, and all other animals **ALIVE**.
18. Air would be unbreatheable if plants did not continually **REPLENISH** it with oxygen.