



Photosynthesis and Cellular Respiration

Multiple Choice:

1. What is photosynthesis?

- a) The process by which plants make food using sunlight, water, and carbon dioxide.
- b) The process by which animals convert food into energy.
- c) The process by which plants produce oxygen.
- d) The process by which animals breathe in oxygen.

2. Where does photosynthesis primarily take place in a plant?

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

3. During photosynthesis, plants take in which gas from the air?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Hydrogen

4. What is the main product of photosynthesis that plants use for energy?

- a) Water
- b) Glucose
- c) Oxygen
- d) Carbon dioxide

5. What is cellular respiration?

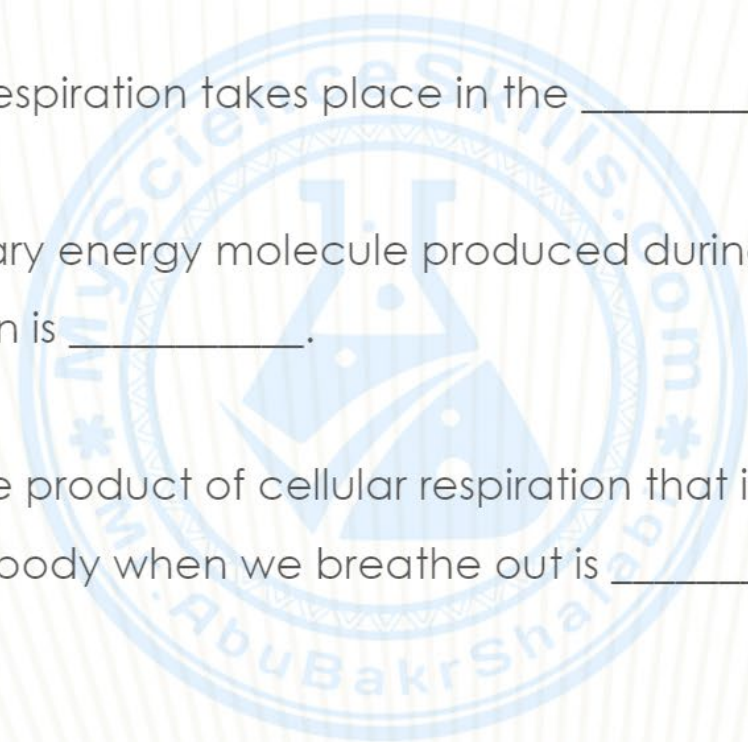
- a) The process by which plants take in carbon dioxide.
- b) The process by which animals make their own food.
- c) The process by which cells break down glucose to release energy.
- d) The process by which cells produce oxygen.

True/False:

1. Photosynthesis occurs in animal cells.
2. Cellular respiration takes place in the chloroplasts of plant cells.
3. The primary purpose of photosynthesis is to produce glucose.
4. Oxygen is a waste product of cellular respiration.
5. Photosynthesis is essential for the survival of all living organisms on Earth.

Fill in the Blanks:

1. During photosynthesis, carbon dioxide is _____ by plants from the air.
2. The main pigment in chloroplasts responsible for capturing light energy is called _____.
3. Cellular respiration takes place in the _____ of a cell.
4. The primary energy molecule produced during cellular respiration is _____.
5. The waste product of cellular respiration that is expelled from the body when we breathe out is _____.



Answers

Multiple Choice:

1. a) The process by which plants make food using sunlight, water, and carbon dioxide.
2. c) Leaves
3. b) Carbon dioxide
4. b) Glucose
5. c) The process by which cells break down glucose to release energy.

True/False:

1. False
2. False
3. True
4. True
5. True

Fill in the Blanks:

1. taken in
2. chlorophyll
3. mitochondria
4. adenosine triphosphate (ATP)
5. carbon dioxide