

Matter and Energy in Organisms Test

Name: _____

Date: _____

Class: _____

Part I – Multiple Choice: Choose the best answer.

1. What is the main source of energy for most living organisms?

- A. Water
- B. Sunlight
- C. Soil
- D. Oxygen

2. Which process allows plants to make food?

- A. Respiration
- B. Digestion
- C. Photosynthesis
- D. Fermentation

3. What gas do plants take in during photosynthesis?

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide
- D. Hydrogen

4. Which organelle is known as the powerhouse of the cell?

- A. Nucleus
- B. Ribosome
- C. Chloroplast
- D. Mitochondrion

5. Which molecule stores and transfers energy in cells?

- A. DNA
- B. ATP
- C. Water
- D. Protein

6. What do consumers obtain by eating other organisms?

- A. Minerals only
- B. Matter and energy
- C. Water only

D. Sunlight only

7. Which process breaks down glucose to release energy?

- A. Photosynthesis
- B. Cell differentiation
- C. Cellular respiration
- D. Diffusion

8. What is the role of chloroplasts in plant cells?

- A. Store water
- B. Make proteins
- C. Produce energy from sunlight
- D. Control the cell

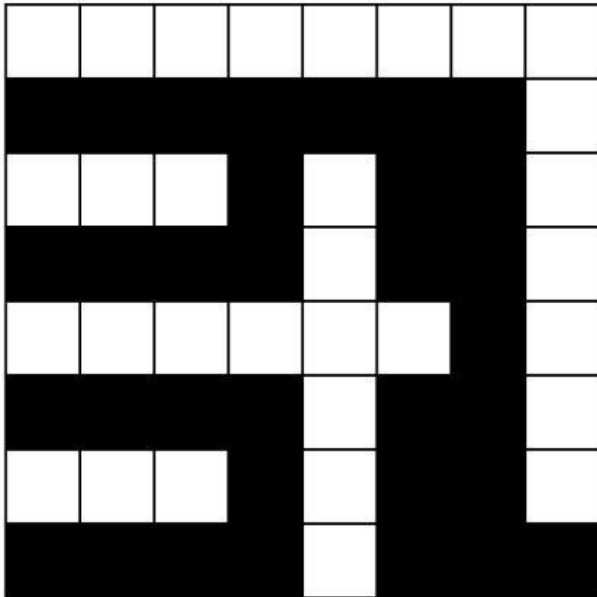
9. Matter cycles through ecosystems while energy:

- A. Is recycled completely
- B. Flows in one direction
- C. Disappears
- D. Stays constant

10. Organisms use nutrients mainly for:

- A. Growth and energy
- B. Sound production
- C. Weather changes
- D. Gravity

Part II – Crossword Puzzle



Across

1. Process plants use to make food (8 letters shown).
2. Energy-carrying molecule in cells.
3. What organisms need to survive and grow.
4. Main source of energy for Earth.

Down

5. Process that releases energy from glucose.