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

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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

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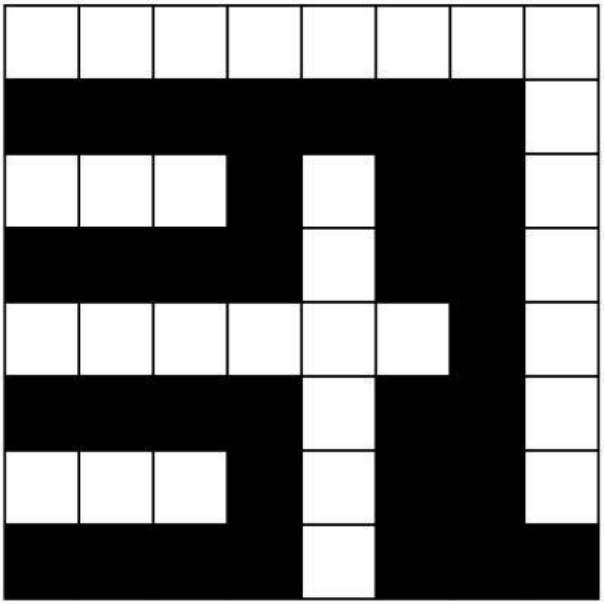

Across

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.

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