

BIOLOGY 12: CHAPTER 6 - REVIEW WORKSHEET
ENZYMES

PART A: CHAPTER REVIEW

1. List the 2 cellular organelles that transform one form of energy into another form.

2. Name the 2 processes that permit a flow of energy from the sun through all living things?

3. Define energy. Do chemicals, energy, or both cycle through living things?

4. Define the First Law of Thermodynamics. Can energy be converted from one form to another form?

5. Why must a cell always take in energy in order to continue living?

6. What is meant by the Second Law of Thermodynamics? What form of energy is lost to the surroundings?

7. Name the molecule that is the immediate source of energy in cells. What is it composed of? Where are the high-energy bonds found? _____

8. Define metabolism. What are the advantages of having metabolic pathways in a cell?

9. What are enzymes? Why are they important? Are they specific? How are they named?

10. Why are enzymes absolutely necessary to the continued existence of a cell?

PART B: OBJECTIVE CHAPTER TEST

1. When cells require energy for synthetic reactions, they "spend" _____.