

**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.  
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2. Name the 2 processes that permit a flow of energy from the sun through all living things?  
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3. Define energy. Do chemicals, energy, or both cycle through living things?  
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4. Define the First Law of Thermodynamics. Can energy be converted from one form to another form?  
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5. Why must a cell always take in energy in order to continue living?  
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6. What is meant by the Second Law of Thermodynamics? What form of energy is lost to the surroundings?  
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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? \_\_\_\_\_  
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8. Define metabolism. What are the advantages of having metabolic pathways in a cell?  
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9. What are enzymes? Why are they important? Are they specific? How are they named?  
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10. Why are enzymes absolutely necessary to the continued existence of a cell?  
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**PART B: OBJECTIVE CHAPTER TEST**

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