

CHAPTER 8.1—8.2: Energy and ATP

1. Define the following terms:

a. potential energy _____

b. kinetic energy _____

c. anabolic pathway _____

d. catabolic pathway _____

2. The First Law of Thermodynamics is the principle of... _____

3. The Second Law of Thermodynamics involves changes in... _____

4. What is meant by a change in free energy? _____

5. Compare reactions that are...

a. Exergonic _____

b. Endergonic _____

Name: _____

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6. Sketch the 'profiles' of exergonic and endergonic reactions:

7. Sketch and label the ATP cycle (**see Figure 8.6**):

8. How does ATP store energy? _____

9. How does ATP "couple reactions"? _____
