**Cell Energy Worksheet**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What type(s) of carbon-based molecules (organic compounds) are the source for most of the energy in the foods you eat? (Hint: think about the 4 macromolecules)

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1. Where is the energy stored in these molecules? Which bond has the most energy stored?

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1. What does ATP stand for?

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1. What is ATP used for in cells?

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1. Identify the parts of an ATP molecule below. Label adenosine, ribose, and phosphate molecules.



1. How is energy stored in the ATP molecule?

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1. What happens to the ATP molecule when a phosphate group is removed? (What does it turn into?)

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1. Diagram the cycle of going from ATP to ADP.
2. Using your best reasoning, how do you think plants produce ATP?

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