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#\_\_\_\_\_\_\_\_\_\_\_

**Chemical Energy and ATP**

Multiple Choice

1. ATP has \_\_\_\_\_\_\_\_ phosphate groups.
2. Two
3. One
4. Three
5. Four
6. The first thing that happens during the ATP cycle is
7. Energy is added to ADP
8. ATP loses one phosphate group and releases energy
9. Energy is released for cell functions
10. Energy is added from the breakdown of glucose

True or False

1. True/False ATP transfers the energy from the breakdown of food molecules to cell functions.
2. True/False It takes energy to add and remove a phosphate group.

Matching

1. \_\_\_\_\_\_\_\_ ATP a) Lower-energy molecule with two

phosphate groups.

1. \_\_\_\_\_\_\_\_ADP b) High-energy molecule with three

phosphate groups.

Short Answer: Watch this video to help <http://www.youtube.com/watch?v=bbtqF9q_pFw>

1. What does ATP stand for and what is its purpose in the cell?

9. How does ADP regain a phosphate group to become ATP again?