

Name: _____

Date: _____

- 1) Draw an ATP Molecule and label all its parts.
 - a) What does "ATP" stand for?

- 2) What is ATP used for in a cell? Big concept, not specifics...

- 3) How do you get energy out of an ATP molecule? Either diagram it or write it out in a sentence or two.

- 4) How do you store energy in an ATP molecule?

- 5) What is "Aerobic" respiration? How is it different from "Anaerobic" respiration?

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- 6) What are the major steps in cellular respiration? Diagram it below and include:
- a) How much, if any, ATP you get per step?
 - b) How much total ATP do you get?
 - c) What is each step called?
 - d) Where does each step occur? (Think parts of the cell/organelles)
 - e) What are your reactants (starting materials) and your products (ending materials)?
 - f) Which way is aerobic? Which way is anaerobic?

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- 7) What are the major steps in photosynthesis? Diagram it below and include:
- a) What is each step called?
 - b) Where does each step occur? (Think parts of the cell/organelle)
 - c) What are your reactants (starting materials) and your products (ending materials)?
 - d) Which step needs light (Light Dependent)? Which step does not need light (Light Independent)?

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8) Why is sunlight needed for photosynthesis?

9) What is the Calvin Cycle? Why is it important?