Study Guide:

Photosynthesis and Cellular Respiration

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| **Resources for Studying:**   |  |  |  | | --- | --- | --- | | - PowerPoint on Photosynthesis  - Homework | - Reading Activity on Photosynthesis  - Textbook | - Videos on my webpage  - Rate of Photosynthesis Lab | |

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| Energy: |

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|  | 1. What is ATP? And how do you make it into ADP? atpadp.gif    1. 2. Where is energy stored in ATP? 2. Which stores more energy?   **ATP, AMP, ADP**  Why: |

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| Photosynthesis: |

1. Purpose:
2. Location: (organismal level (plant or animal) and at a organelle level)
3. Equation: Know products and reactants
4. How does the electron transport chain work and what is its function? (Use: Concentration gradient, semipermeable membrane, and charged particle in your answer)
5. Light and Dark reactions

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| **Process** | **Location** | **Reactants**  (What Goes In) | **End Products**  (What Comes Out) |
| **Light Dependent Reactions** |  |  |  |
| **Light Independent Reactions** |  |  |  |

1. Label the process of photosynthesis in the space below. Include the following structures and processes in your diagram: chloroplast, chlorophyll, light reaction, dark reaction, reactants, products, light, ATP

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| Screen shot 2012-11-09 at 11.55.15 AM.png |
| Screen shot 2012-11-09 at 11.55.31 AM.png |
| Screen shot 2012-11-09 at 11.55.38 AM.png |