**Rate of Photosynthesis ~Conclusion Guide~**

Title: Summarizes experiment

Paragraph #1: What background information supports the experiment?

* Photosynthesis

•Purpose

•Location: What organelle and where in that organelle

Equation:

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| Reactants (what goes in) | Products (what comes out) |
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Paragraph #2: Light Vs Dark Reaction:

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| **Light Reaction**  Why called Light Reaction? | **light_dark_reactions.gif** | | **Dark Reaction**  Why called Dark Reaction?  Why is that not entirely correct? |
| Where does it occur?  Light | | Where does it occur? | |
| **Energy formed**: as \_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_ energy and the splitting of \_\_\_\_\_\_\_\_\_\_ store \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy | | **Energy formed:**  The energy stored in the light reaction is used to convert \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AKA SUGAR! | |
| **Take in:**  •**H20 & Light**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | **Take in:**  •**CO2**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| **Release:**  •**ATP**  •**Waste: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | **Release:**  •**Sugar (Glucose – C6H12O6)**  •**Waste: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | |

¶#3: Why is the experiment being done?

1. Why do we care how much photosynthesis is occur in?
   1. What is the connection between photosynthesis and the human population?

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| **Energy** | **Food** | **Oxygen** |
| Food Web: | STARVATION | PhotoResp5  O2  Energy  CO2 + H2O  How are these two pictures the same? |
| * Make a recommendation for protecting or destroying the sun: | | |

**HOMEWORK**!!! Paragraph #4: What are the predicted outcomes of the experiment? Explain

1. State predictions:
2. Explain why you expect each test to result as predicted

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| ***Low light intensity*** | ***Med light intensity*** | ***High light intensity*** |
|  |  |  |

* What other factors might affect the rate of photosynthesis? (**Hint**: consider the reactants in the photosynthesis reaction)