**Photosynthesis: Compare & Contrast**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_

**Characteristics: Types of Reactions:**

|  |  |  |
| --- | --- | --- |
|  | **Light Reaction** | **Dark Reaction**  **(Calvin Cycle)** |
| **Light**  **(Is it needed?)** |  |  |
| **Location**  **(Where does it take place?)** |  |  |
| **Sources**  **(What is needed?)** |  |  |
| **Products**  **(What is made?)** |  |  |
| **Role of ATP**  **(What is energy used for?)** |  |  |

**QUESTIONS:**

1. Write the complete chemical equation of photosynthesis?

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1. How do these reactions depend on one another to carry out photosynthesis?
2. If the light reactions stopped, what would happen? How would this affect you?
3. If the dark reactions stopped, what would happen? How would this affect you?