**Outcome Practice: Cellular Respiration**

**Name: Biology 11**

**Directions:** complete the questions below using both your notes created from the tutorial as well as textbook pages 221 to 232.

1. What is NAD+ and how is it similar to NADP+?
2. What organelles within a cell allow for cellular respiration to occur?
3. Fill in the chart below looking looking at the 3 processes that occur during cellular respiration:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Where does it occur?** | **O2 Needed?** | **Reactants**  **(what goes in)** | **Products**  **(what is made)** | **Purpose**  **(how much ATP made)** |
| **Glycolysis** |  |  |  |  |  |
| **Krebs Cycle** |  |  |  |  |  |
| **Electron Transport**  **Chain** |  |  |  |  |  |

1. What occurs after glycolysis if there is no oxygen present? Why does this occur?
2. What types of products are created if the process mentioned in #4 occurs, what are their practical uses?
3. Explain (using an equation) why photosynthesis and cellular respiration are said to be complementary processes, meaning they rely on each other.