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| --- | --- |
|  **6 CO2 + 6 H2O 🡪 C6H12O6 + 6 O2**  | **C6H12O6 + 6 O2 🡪 6 CO2 + 6 H2O (+36 ATP)** |
| **The reactants needed by cells for this process are carbon dioxide and water** | **The reactants needed by cells for this process are glucose and oxygen** |
| **The products formed in cells during this process are glucose and oxygen** | **The products formed in cells during this process are carbon dioxide and water** |
| **This process occurs in chloroplasts** | **This process begins in the cytoplasm but mainly occurs in mitochondria** |
| **The purpose of this process is to use energy to produce food for plant cells** | **The purpose of this process is to use food to produce energy for all cells** |
| **This process transforms solar energy into chemical energy (glucose)** | **This process transforms one form of chemical energy (glucose) into another form of chemical energy (ATP)** |