Cellular Respiration and Photosynthesis Equations

Name: ___________________________ Date: __________

Fill in the blanks to complete the definition and chemical equation for cellular respiration and photosynthesis.

1. Cellular respiration is the _________ of photosynthesis.

2. Cellular respiration, or ___________ respiration, occurs in the ________________.

3. Please label the diagram and fill in the blanks below.

**Cellular Respiration Equation**

\[
\text{Glucose} + \text{__________} \rightarrow \text{__________} + \text{__________} \text{O}_2
\]

\[
\text{__________} + \text{Water} + \text{__________} \rightarrow \text{Glucose} + \text{__________} + \text{H}_2\text{O}
\]

4. Photosynthesis requires ___________ to convert carbon dioxide and ___________ to ___________ and oxygen.

5. Please label the diagram and fill in the blanks below.

**Photosynthesis Equation**

\[
\text{__________} + \text{Water} + \text{Sunlight} \rightarrow \text{Glucose} + \text{__________} \text{O}_2
\]
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1. Cellular respiration is the _________ of photosynthesis.

2. Cellular respiration, or _________ respiration, occurs in the _________.

3. Please label the diagram and fill in the blanks below.

**Cellular Respiration Equation**

Reactants | Products
---|---
Glucose + Oxygen | Carbon dioxide + Water + ATP
C₆H₁₂O₆ + 6 O₂ | CO₂ + H₂O

4. Photosynthesis requires _________ to convert carbon dioxide and _________ to _________ and oxygen.

5. Please label the diagram and fill in the blanks below.

**Photosynthesis Equation**

Reactants | Products
---|---
Carbon dioxide + Water + ATP | Glucose + Oxygen
CO₂ + H₂O | C₆H₁₂O₆ + 6 O₂

Sunlight