

Name: _____

Section: _____

Photosynthesis vs. Cellular Respiration

Directions: Use the word bank below to complete the Venn diagram. Feel free to add additional details.

- | | | | |
|---------------------------|--------------------------|---------------------------|---|
| • Requires O_2 | • Involves energy | • Requires CO_2 | • $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$ |
| • Produces CO_2 | • Only used by plants | • Generates usable energy | • $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$ |
| • Makes "food" | • Occurs in chloroplasts | • Produces O_2 | • Occurs in mitochondria |
| • Produces $C_6H_{12}O_6$ | • Produces H_2O | • Produces ATP | • Involves chemical reactions |
| • Requires light | • Requires H_2O | • Does not require light | • Used by plant and animal cells |

Photosynthesis

Cellular Respiration

