Figure 3 The Connection Between Photosynthesis and Respiration **Cellular Respiration** Cellular respiration releases carbon dioxide and water, which are used by **ATP** plant cells to make glucose. During photosynthesis, oxygen is released. Light energy $\overline{CO}_2 + \overline{H}_2O$ Mitochondrion Chloroplast $C_6H_{12}O_6 + O_2$ **Photosynthesis** Photosynthesis makes glucose and oxygen, which plant and animal cells use to make ATP. Cellular respiration releases carbon dioxide and water. **Animal Cell Plant Cell**