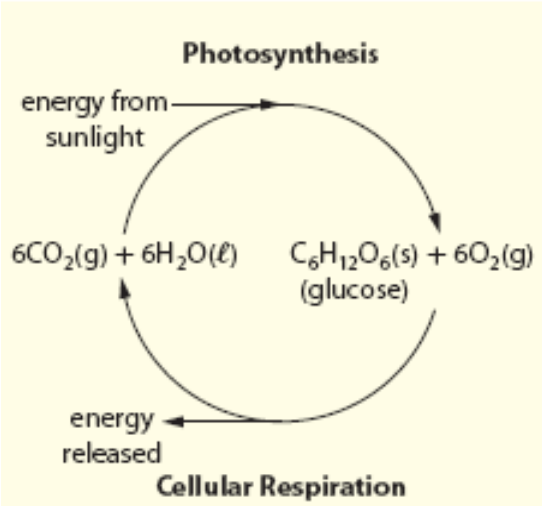
CHAPTER 1		BLM 1.1.2
OVERHEAD	**The Chemical Reactions for Photosynthesis and Cellular Respiration**	

cellular respiration	$C_6H_{12}O_6(s) + 6O_2(g) \rightarrow 6CO_2(g) + 6H_2O(\ell) + \text{energy}$ carbohydrates (sugars and starches) + oxygen → carbon dioxide + water + energy
photosynthesis	$6CO_2(g) + 6H_2O(\ell) + \text{light energy} \rightarrow C_6H_{12}O_6(s) + 6O_2(g)$ carbon dioxide + water + light energy → carbohydrates (sugars and starches) + oxygen



Although the processes are very different, the overall equations for photosynthesis and cellular respiration are complementary.

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