

Photosynthesis/Respiration

Course(s): Biology	Grade:10
Standard HS-LS1-5, HS-LS1-7, HS-LS2-3	

	Learning Targets	Score Tracker
Score 4.0	Complex Content I can... ☐ I can explain how the products of aerobic and anaerobic respiration are used by organisms. ☐ Explain the energy transformation through the process of photosynthesis and cellular respiration-focusing on forming and breaking chemical bonds. ☐ Describe how energy is released when ATP is hydrolyzed ☐ I can explain how photosynthesis and cellular respiration are complementary to each other. (HS-LS1-5, HS-LS1-7)	
	Score 3.5	<i>In addition to score 3.0 performance, partial success at score 4.0 content.</i>
Score 3.0	Target Content I can... ☐ I can explain how the products of photosynthesis are used by the plants. (HS-LS1-5) ☐ I can explain how cellular respiration transforms energy through the making and breaking of bonds. (HS-LS1-7) ☐ I can explain how photosynthesis transforms light energy into chemical energy.(HS-LS1-5) ☐ I can explain how ATP is used by the organisms for energy (HS-LS1-7) ☐ I can identify the difference in end products with aerobic vs anaerobic respiration (HS-LS2-3)	
	Score 2.5	<i>No major errors or omissions regarding score 2.0 content, and partial success at score 3.0 content.</i>
Score 2.0	Simple Content: Priority Vocabulary ☐ I can write the balanced equation for respiration and photosynthesis ☐ I can identify organelles that are used in photosynthesis and cellular respiration. ☐ I can list the parts of ATP I Can Recall and Apply the Following Vocab Words in my Explanation: Autotroph, heterotroph, cellular respiration, anaerobic vs. aerobic respiration, fermentation, lactic acid, ethanol, anabolic vs. catabolic	
	Score 1.5	<i>Partial success at score 2.0 content, and major errors or omissions regarding score 3.0 content.</i>
Score 1.0	<i>With help, partial success at score 2.0 content and score 3 content.</i>	