

Unit 4 Checklist – Photosynthesis, Respiration, and Enzymes

#	Question	Pre-Assessment	Lesson Exit Ticket
1	Explain the importance of photosynthesis.	It converts _____ into _____	It converts _____ into _____
2	What is the source of energy for photosynthesis?		
3	What are the chemical reactants of photosynthesis?	1. 2.	1. 2.
4	What are the products of photosynthesis?	1. 2.	1. 2.
5	What is the chemical equation for photosynthesis?		
6	What are 3 types of organisms that can perform photosynthesis?	1. 2. 3.	1. 2. 3.
7	Identify the pigment molecule that captures light energy during photosynthesis.		
8	Identify the organelle in that performs photosynthesis.		

9	Explain the importance of cellular respiration.	It converts _____ into _____	It converts _____ into _____
10	What are the chemical reactants of aerobic cellular respiration?	1. 2.	1. 2.
11	What are the products of aerobic cellular respiration?	1. 2. 3.	1. 2. 3.
12	What is the chemical equation for aerobic cellular respiration?		
13	Describe 2 differences between aerobic and anaerobic cellular respiration.	Aerobic uses _____ and makes _____ ATP. Anaerobic does not use _____ and makes _____ ATP.	Aerobic uses _____ and makes _____ ATP. Anaerobic does not use _____ and makes _____ ATP.
14	Explain the relationship between the reactants and products of photosynthesis and respiration.	The _____ of photosynthesis are the same as the _____ of respiration. The _____ of respiration are the same as the _____ of photosynthesis.	The _____ of photosynthesis are the same as the _____ of respiration. The _____ of respiration are the same as the _____ of photosynthesis.
15	What kinds of organisms perform cellular respiration?		
16	Explain why ATP is important to all living things.		
17	What organelle is responsible of aerobic cellular respiration?		

18	Explain the role or importance of enzymes.		
19	Describe the relationship between enzymes, activation energy, and speed of chemical reactions.	Enzymes _____ activation energy and _____ the speed of chemical reactions.	Enzymes _____ activation energy and _____ the speed of chemical reactions.
20	Describe the relationship between enzymes, substrates, and products of a chemical reaction.	_____ bind with _____ and change them to make _____	_____ bind with _____ and change them to make _____
21	Describe how the shape of an enzyme's active site is related to its substrate.	The shape of an enzyme's active site _____ the shape of its substrate.	The shape of an enzyme's active site _____ the shape of its substrate.
22	Describe 2 ways to denature an enzyme.	1. 2.	1. 2.
23	What happens to an enzyme when it is denatured?		
24	List 3 examples of enzymes and describe what each does.	1. 2. 3.	1. 2. 3.