

Name:			
Date Started:	Date Completed:	Score:	

Learning Activity Sheet Cycling of Materials in an Ecosystem

- **A**. Read and answer each item carefully. Circle the letter of the correct answer.
- 1. Which of the following gases makes up most of the atmosphere?
 - A. nitrogen
 - B. oxygen
 - C. water vapor
 - D. carbon dioxide
- 2. What do you call the source of a nutrient which organisms can easily access?
 - A. niche
 - B. exchange pool
 - C. reservoir
 - D. biogeochemical cycle
- 3. Which of the following processes is involved in the carbon–oxygen cycle?
 - A. ammonification
 - B. assimilation
 - C. cellular respiration
 - D. precipitation
- 4. Which of the following serves as the exchange pool for phosphorus in the environment?
 - A. soil
 - B. animals
 - C. air
 - D. rocks
- 5. Which of the following processes occurs when the leaf of a plant loses water to the atmosphere?
 - A. assimilation
 - B. condensation
 - C. transpiration
 - D. precipitation
- 6. Which of the following processes utilizes light energy, carbon dioxide, and water to produce glucose?
 - A. ammonification
 - B. photosynthesis
 - C. cellular respiration
 - D. precipitation





	A. water cycle B. nitrogen cycle C. phosphorus cycle
	D. carbon dioxide cycle
8.	Which of the following is an incorrect pairing of bacteria and the form of nitrogen they produce in the nitrogen cycle?
	A. nitrogen-fixing bacteria – N2 B. nitrifying bacteria – NO3- C. denitrifying bacteria – N2 D. none of these
9.	Which of the following is true about the amount of matter after physical and chemical changes occur, as stated by the law of conservation of matter?
	A. The amount remains the same.B. The amount of matter decreases.C. The amount of matter increases.D. none of these
10	. When human beings dig up fossil fuels like coal and oil buried deep underground, which of the following material sources are they tapping into?
	A. reservoir B. exchange pool C. niche D. hydrosphere
В.	Identify human activities that affect ecosystems and suggest ways to minimize these effects. Write your answers on the space provided below.
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7. Which of the following cycles of materials involves the process of sedimentation and mineralization?