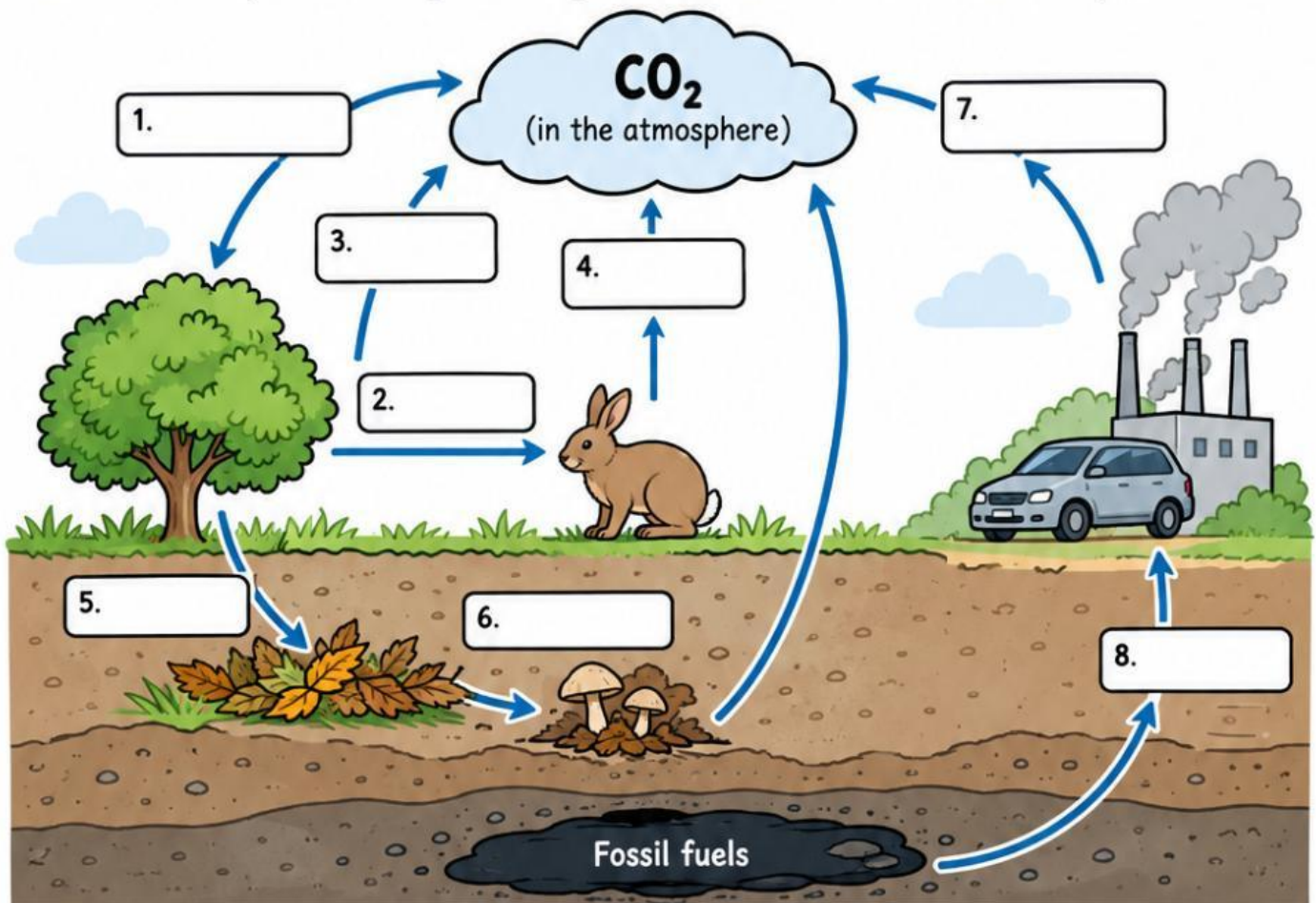


Name: _____

Date: _____

THE CARBON CYCLE

Part A — Complete the diagram using the word bank. Then answer the questions.



WORD BANK

Photosynthesis • Feeding • Plant respiration • Animal respiration
Death and waste • Decomposition • Fossil fuels • Combustion

Part B — CHECK YOUR UNDERSTANDING

1. Which process removes carbon dioxide from the atmosphere?

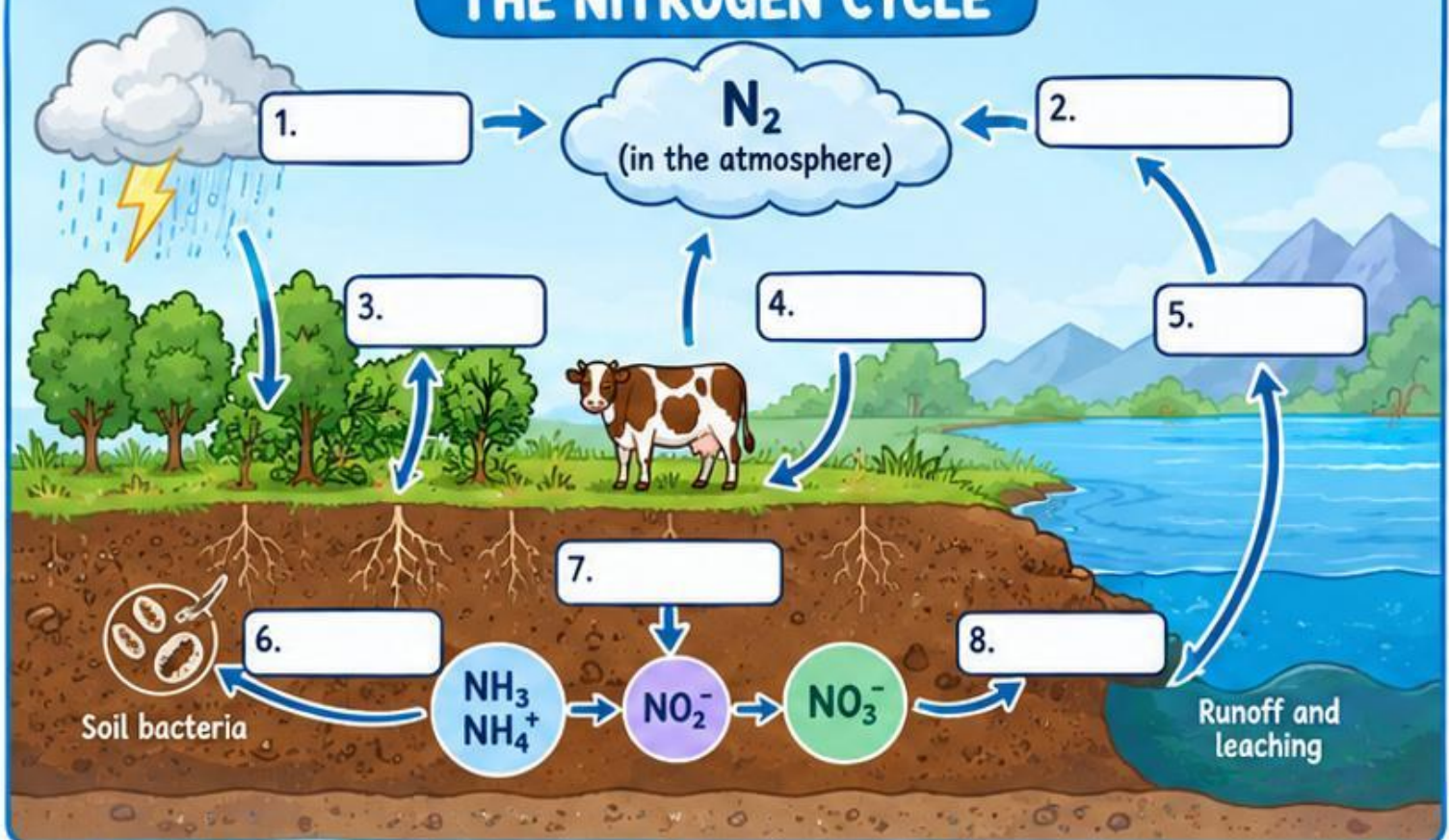
2. Name two processes that release carbon dioxide into the atmosphere.

1. _____ 2. _____

3. How can human activities affect the carbon cycle?



THE NITROGEN CYCLE



WORD BANK – NITROGEN CYCLE

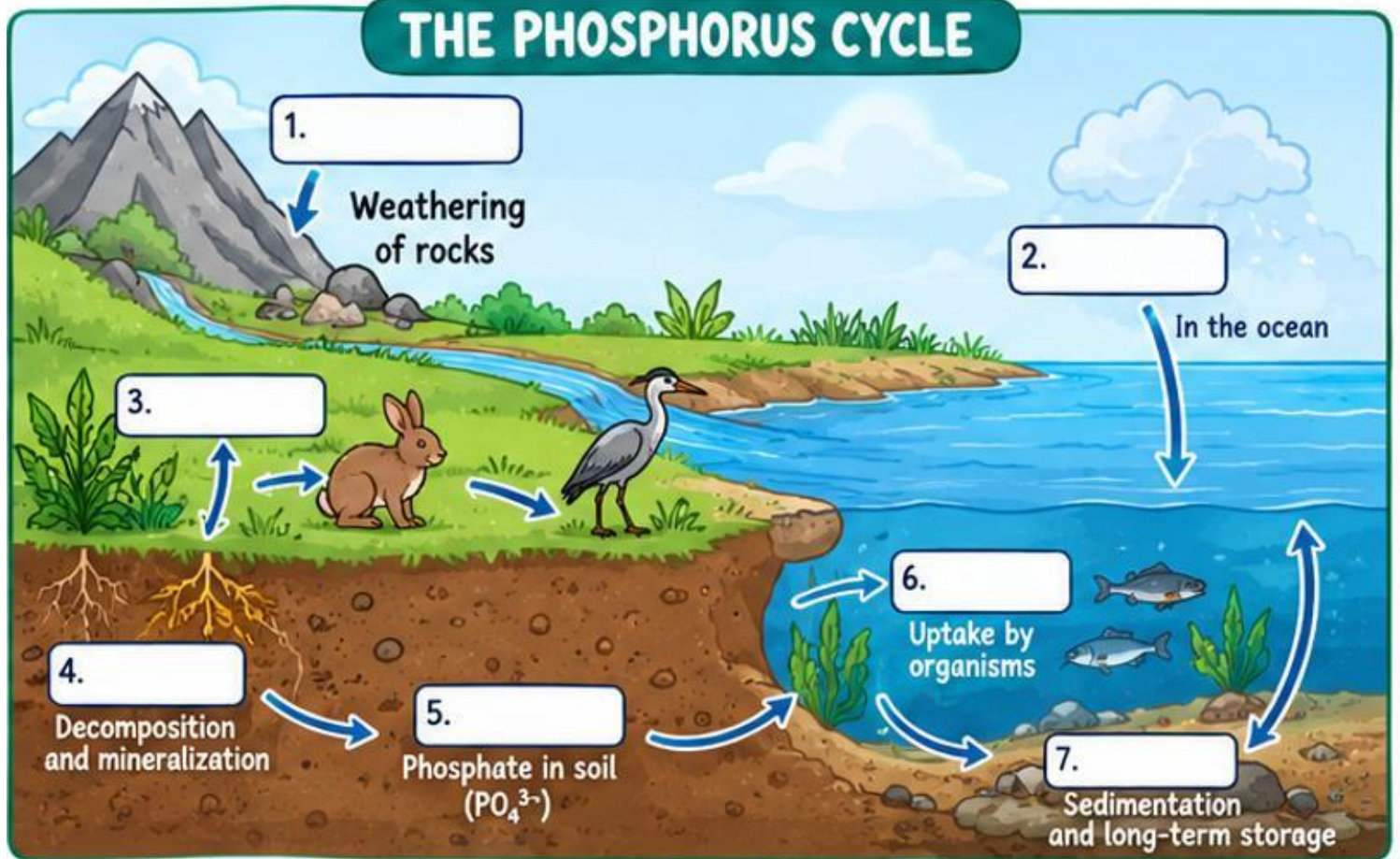
- Nitrogen fixation
- Assimilation
- Denitrification
- Atmospheric nitrogen (N_2)
- Nitrification
- Ammonification (decomposition)
- Runoff and leaching

A. Answer the questions about the nitrogen cycle.

1. What is the main form of nitrogen in the atmosphere? _____
2. Which process converts nitrogen from the atmosphere into a form that plants can use?

3. Name one way nitrogen can return to the atmosphere. _____
4. Why is the nitrogen cycle important for living things? _____

THE PHOSPHORUS CYCLE



WORD BANK – PHOSPHORUS CYCLE

- Weathering of rocks
- Uptake by organisms
- Decomposition and mineralization
- Phosphate in soil (PO_4^{3-})
- Sedimentation and long-term storage
- In the ocean

B. Answer the questions about the phosphorus cycle.

1. Where is most of the phosphorus found? _____
2. How does phosphorus get from rocks to the soil? _____
3. What is the role of decomposers in the phosphorus cycle? _____
4. Why is the phosphorus cycle important for ecosystems and for humans? _____