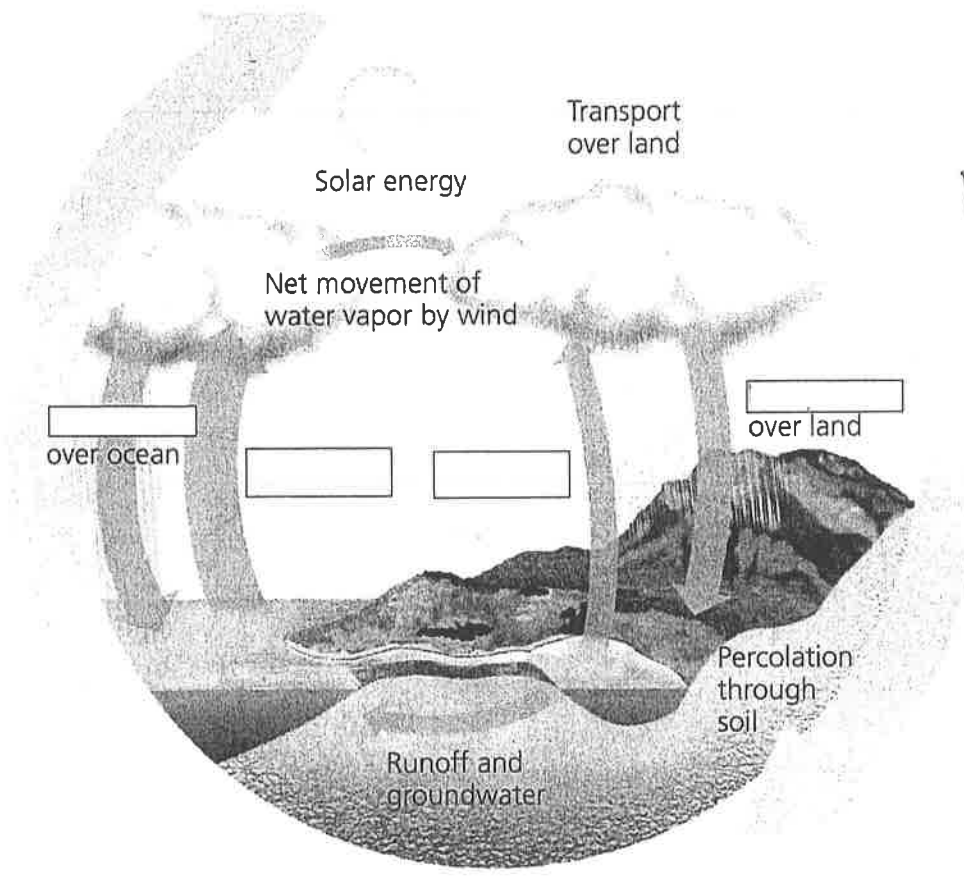


Water Cycle



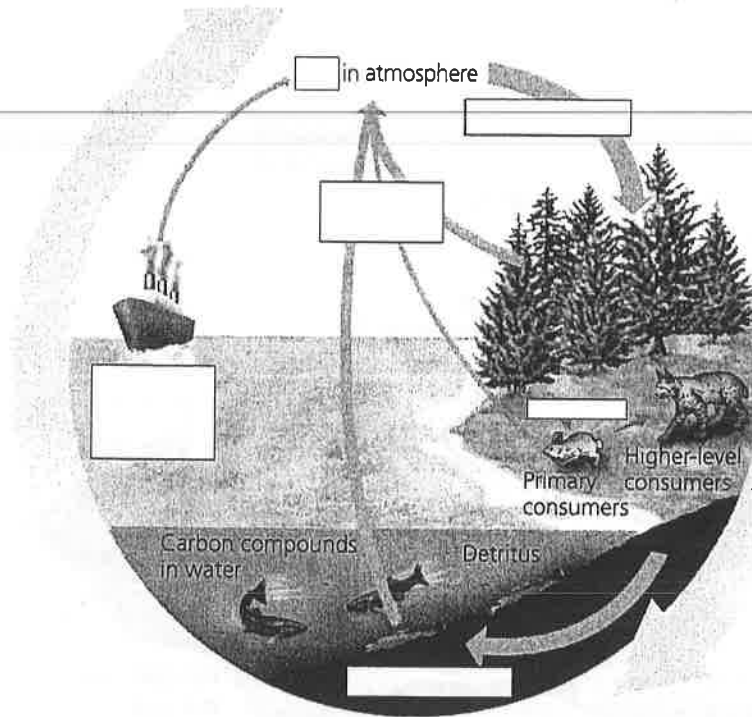
Why do we need oxygen?
(What good does O₂ do in respiration?)

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1. What is being cycled?
2. In what ways does water leave Earth's surface and enter the atmosphere?
3. How does water return to the Earth's surface?
4. What is the major reservoir for this molecule?
lakes and OCEANS
5. Why is this cycle important to the ecosystem?
6. What is the difference between evaporation and transpiration?
7. Identify two ways humans may impact the cycle, be sure to clarify if the human impact is positive or negative.

reservoir = storage place

Carbon Cycle



Why do we need carbon?

What macromolecules have carbon?

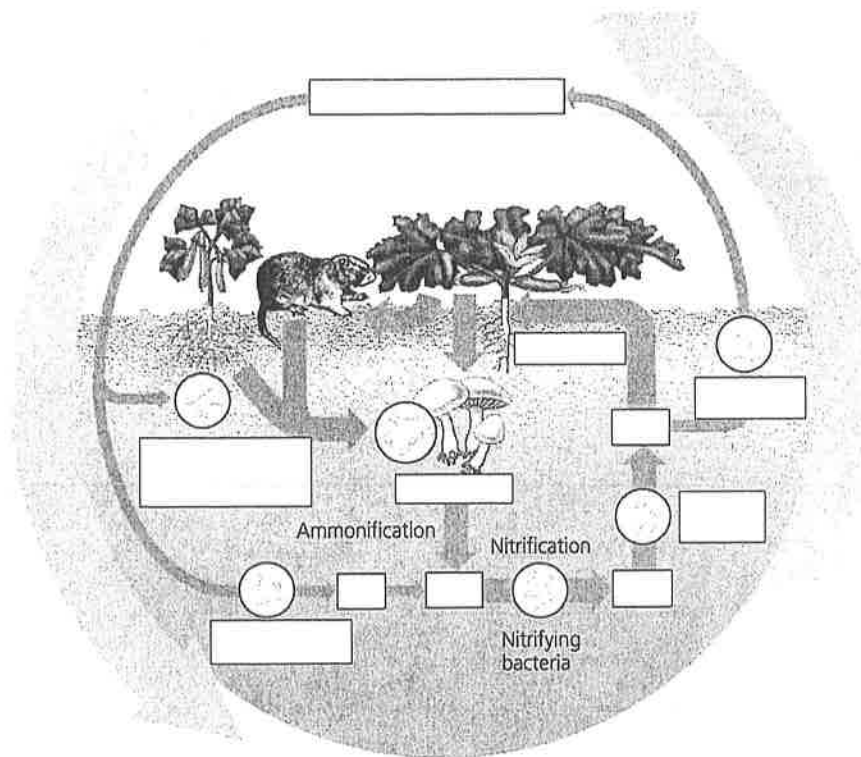
- 1.
- 2.
- 3.
- 4.

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1. What is being cycled?
2. What molecules are involved?
3. List the biotic components of the cycle.
4. List the abiotic components of the cycle.
5. What is the major reservoir of carbon?
6. Plants remove CO_2 from the atmosphere is a process called
7. Plants and animals release CO_2 into the atmosphere is a process call
8. How is carbon returned to the atmosphere?
9. Why is this cycle important to the ecosystem?
10. Identify two ways humans may impact the cycle, be sure to clarify if the human impact is positive or negative.

reservoir = storage location.

Nitrogen Cycle

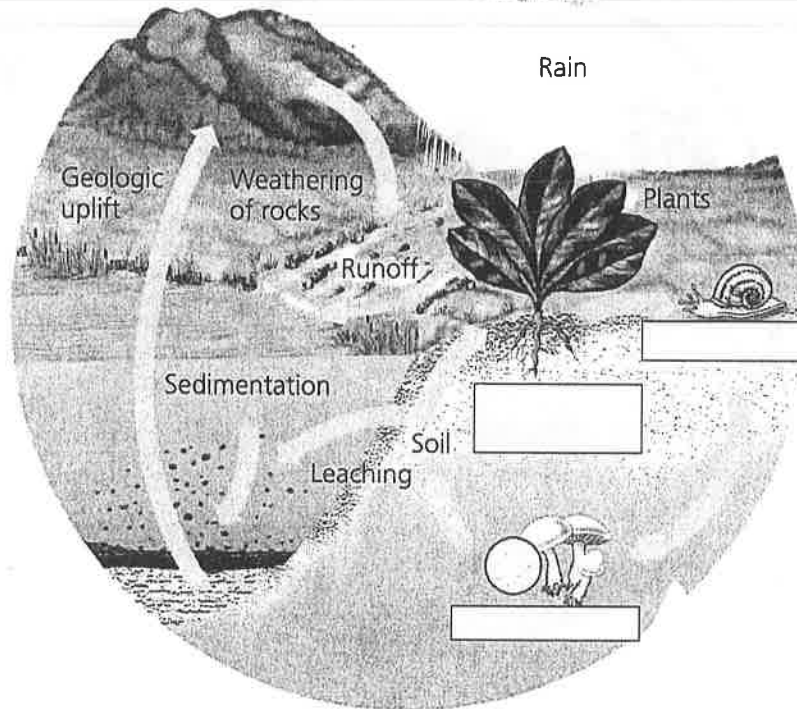


What essential macromolecule needs nitrogen?

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1. What is being cycled?
2. What molecules are involved?
3. List the biotic components of the cycle.
4. List the abiotic components of the cycle.
5. What is the reservoir of nitrogen?
6. What happens to the nitrogen stored in dead plants and animals?
7. Plants use nitrogen in the form of
8. Why is this cycle important to the ecosystem?
9. Identify two ways humans may impact the cycle, be sure to clarify if the human impact is positive or negative.

Phosphorous Cycle



Why do we need phosphorus?

① It makes

_____ for our cell membranes.

② It's part of _____ (the energy molecule!)

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1. What is being cycled?
2. What molecules are involved?
3. List the biotic components of the cycle.
4. List the abiotic components of the cycle.
5. What is the reservoir of phosphorus?
6. Why is phosphorous referred to as a local cycle?
7. Why is this cycle important to the ecosystem?
8. Identify two ways humans may impact the cycle, be sure to clarify if the human impact is positive or negative.