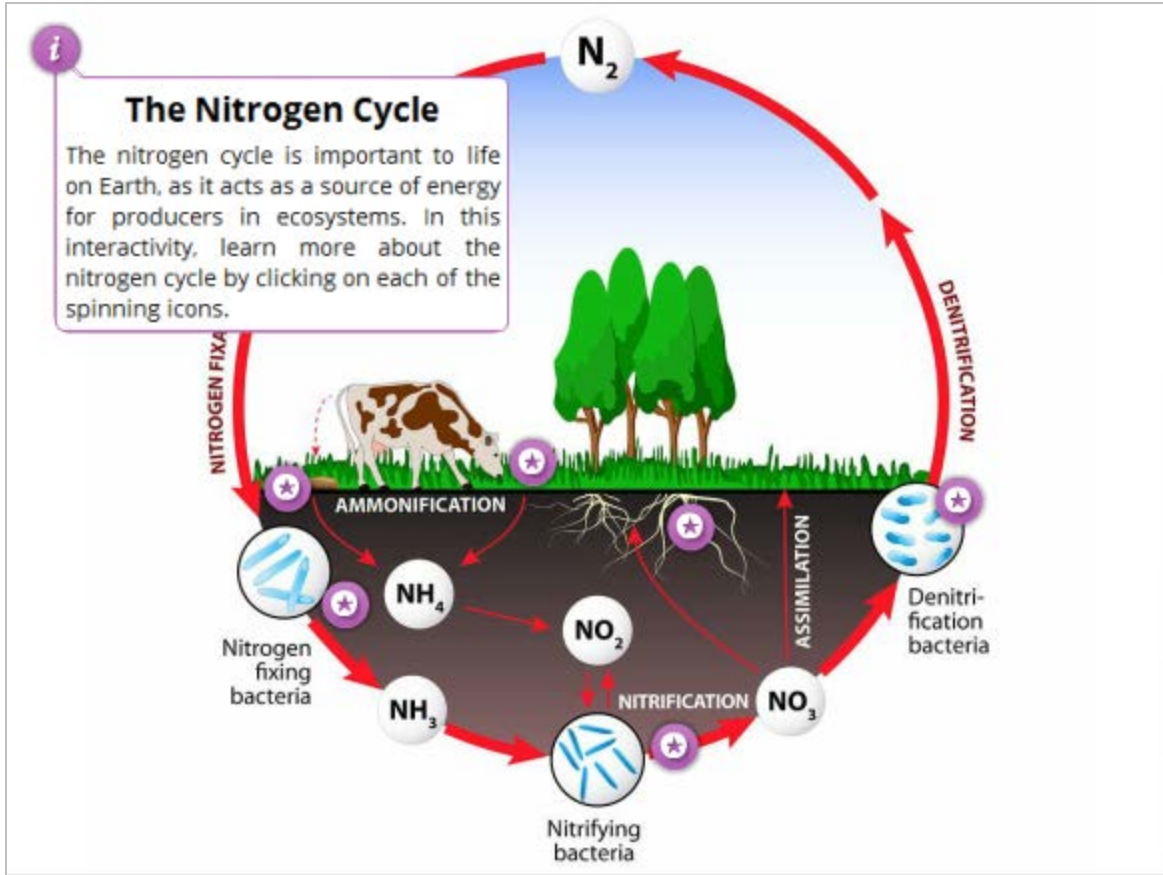


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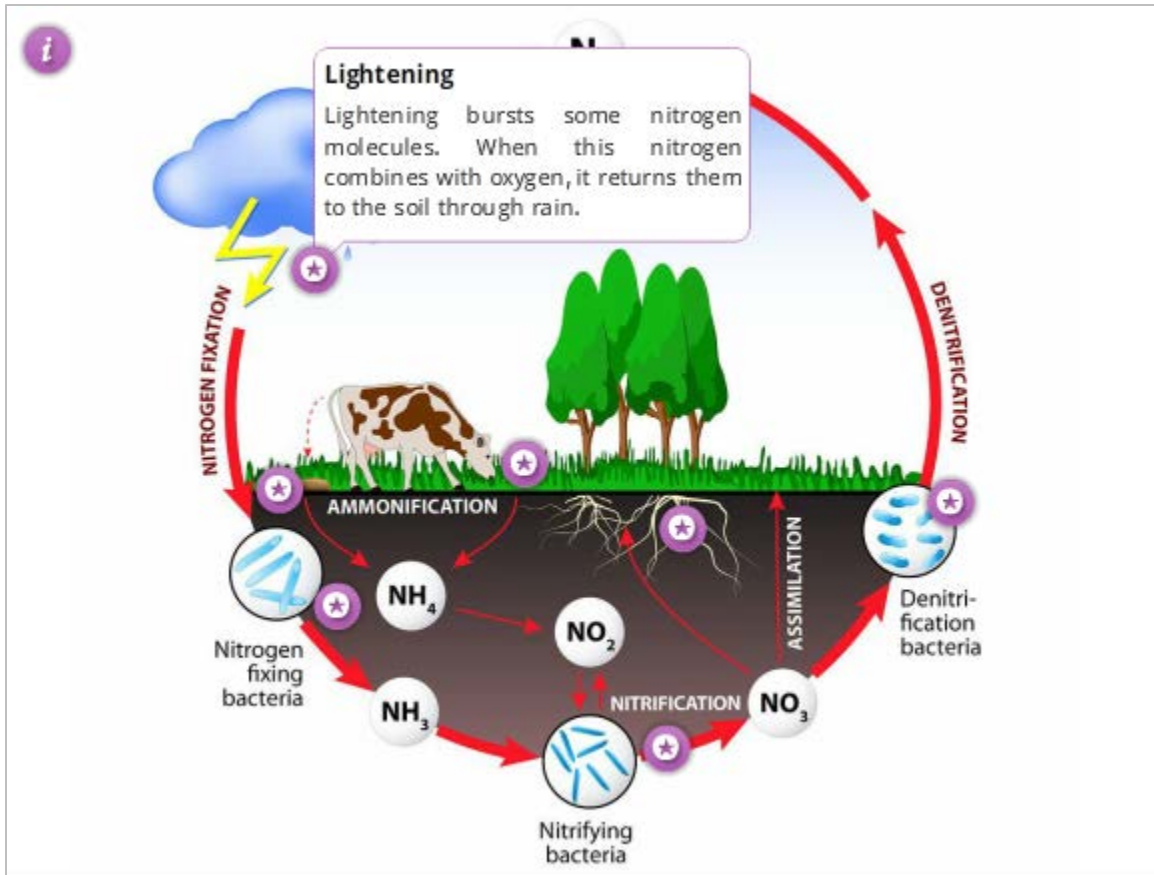
Topic 3 Content: The Nitrogen Cycle Notes



The nitrogen cycle is important to life on Earth, as it acts as a source of energy for producers in ecosystems. In this interactivity, learn more about the nitrogen cycle by clicking on each of the spinning icons.

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Topic 3 Content: The Nitrogen Cycle Notes

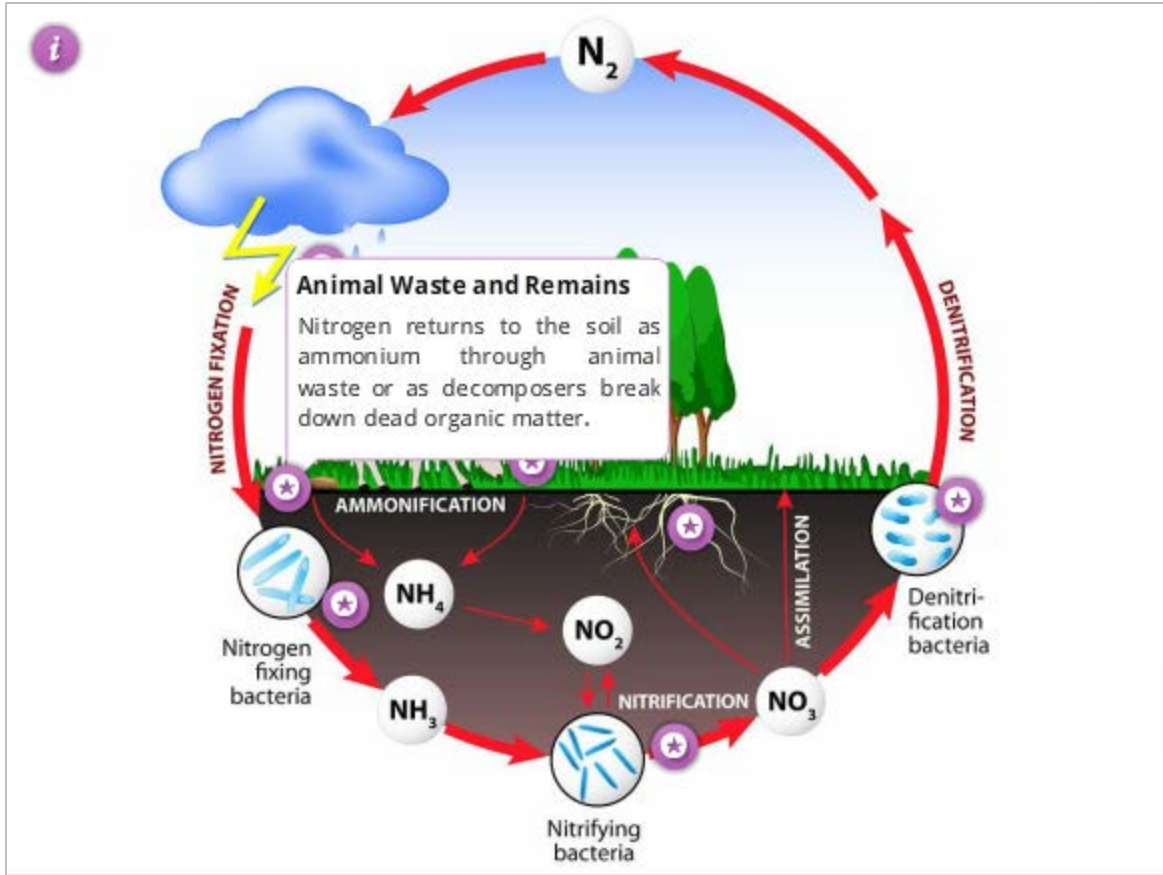


Lightening

Lightening bursts some nitrogen molecules. When this nitrogen combines with oxygen, it returns them to the soil through rain.

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Topic 3 Content: The Nitrogen Cycle Notes

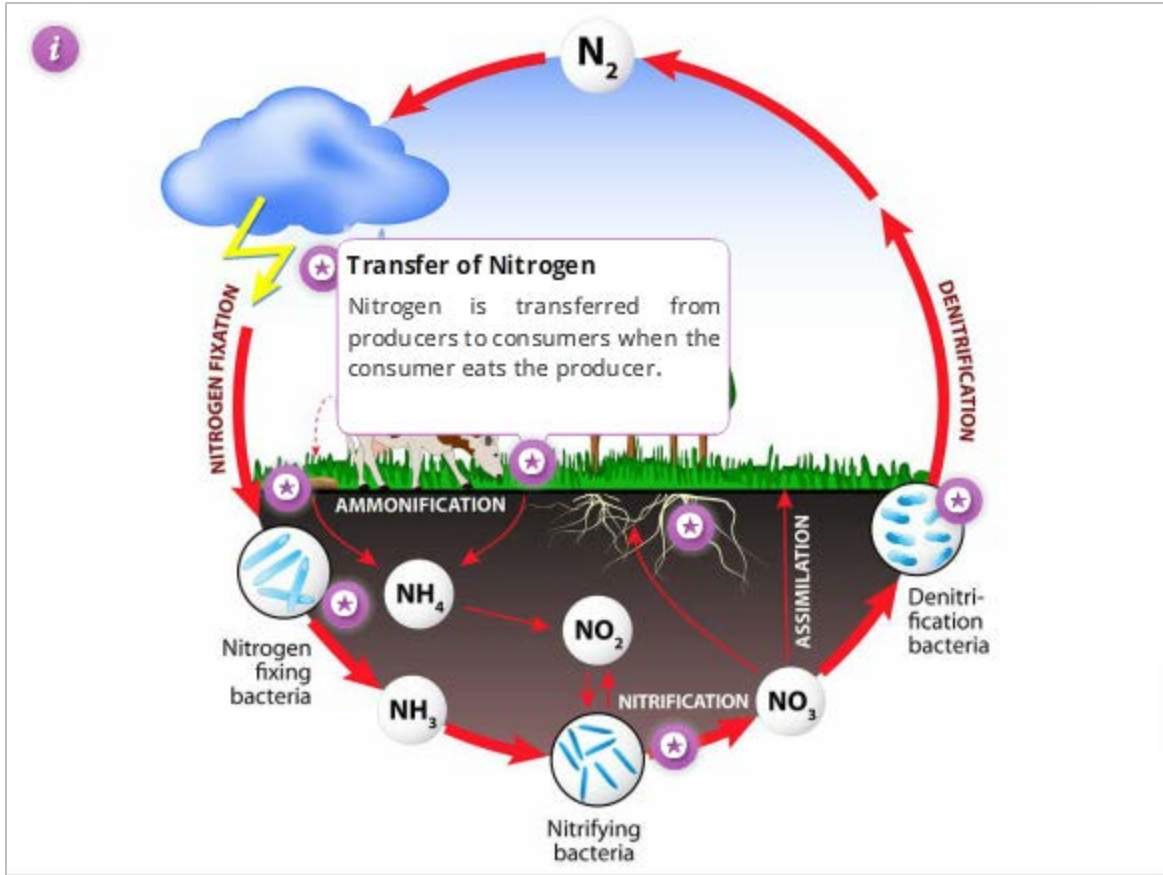


Animal Waste and Remains

Nitrogen returns to the soil as ammonium through animal waste or as decomposers break down dead organic matter.

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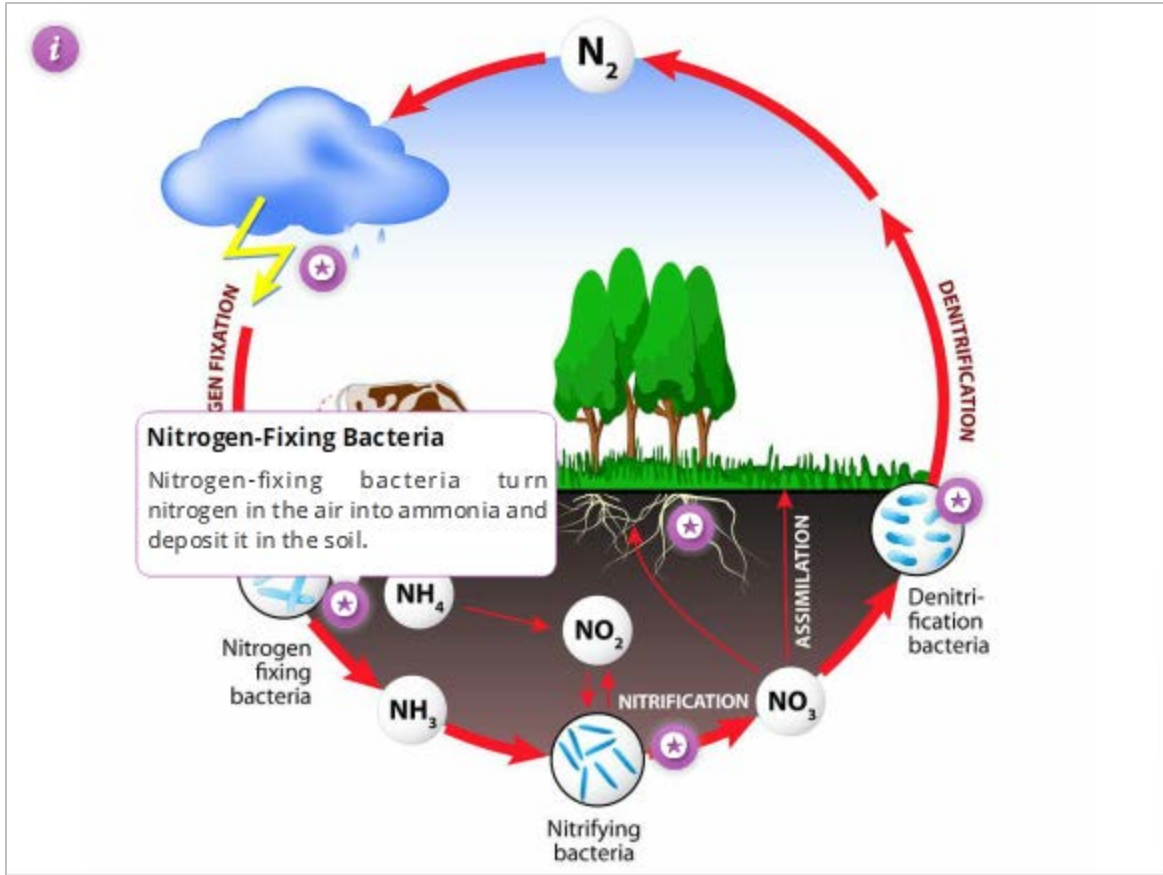


Transfer of Nitrogen

Nitrogen is transferred from producers to consumers when the consumer eats the producer.

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Topic 3 Content: The Nitrogen Cycle Notes

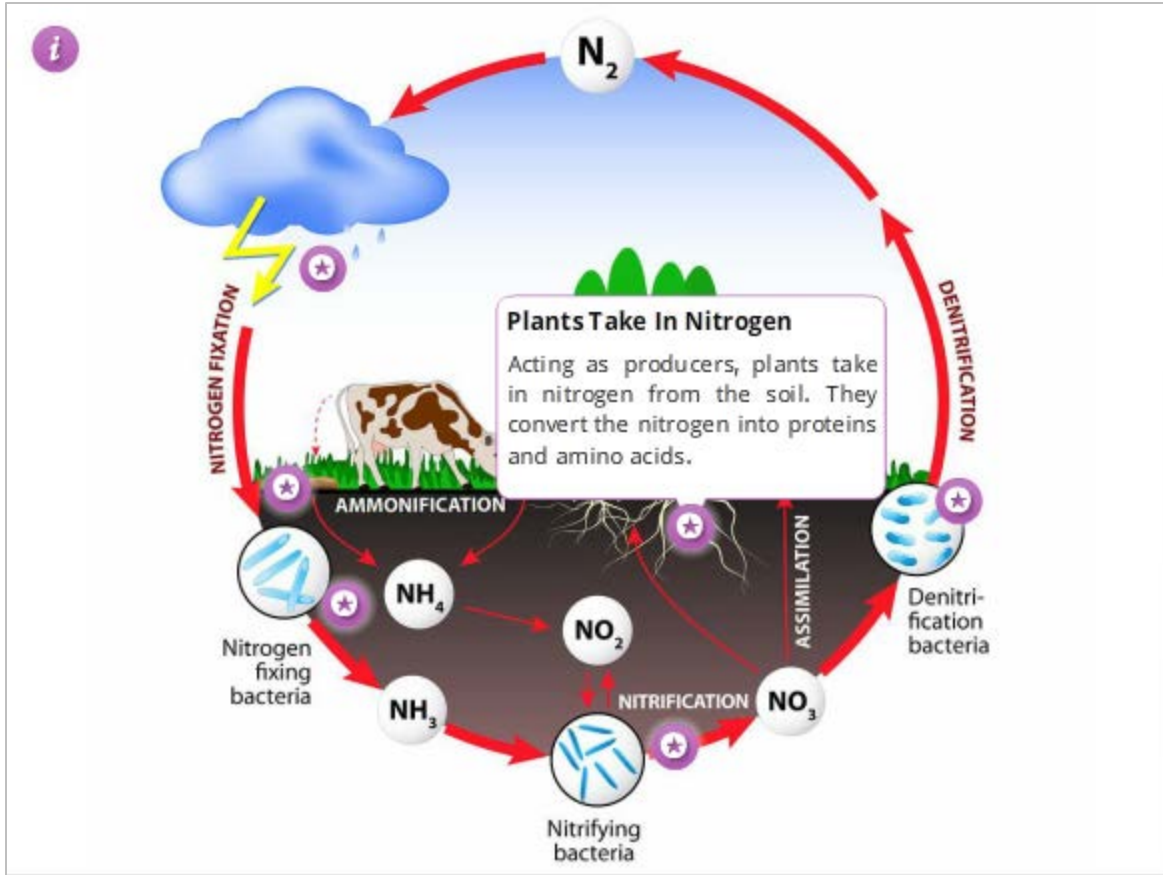


Nitrogen-Fixing Bacteria

Nitrogen-fixing bacteria turn nitrogen in the air into ammonia and deposit it in the soil.

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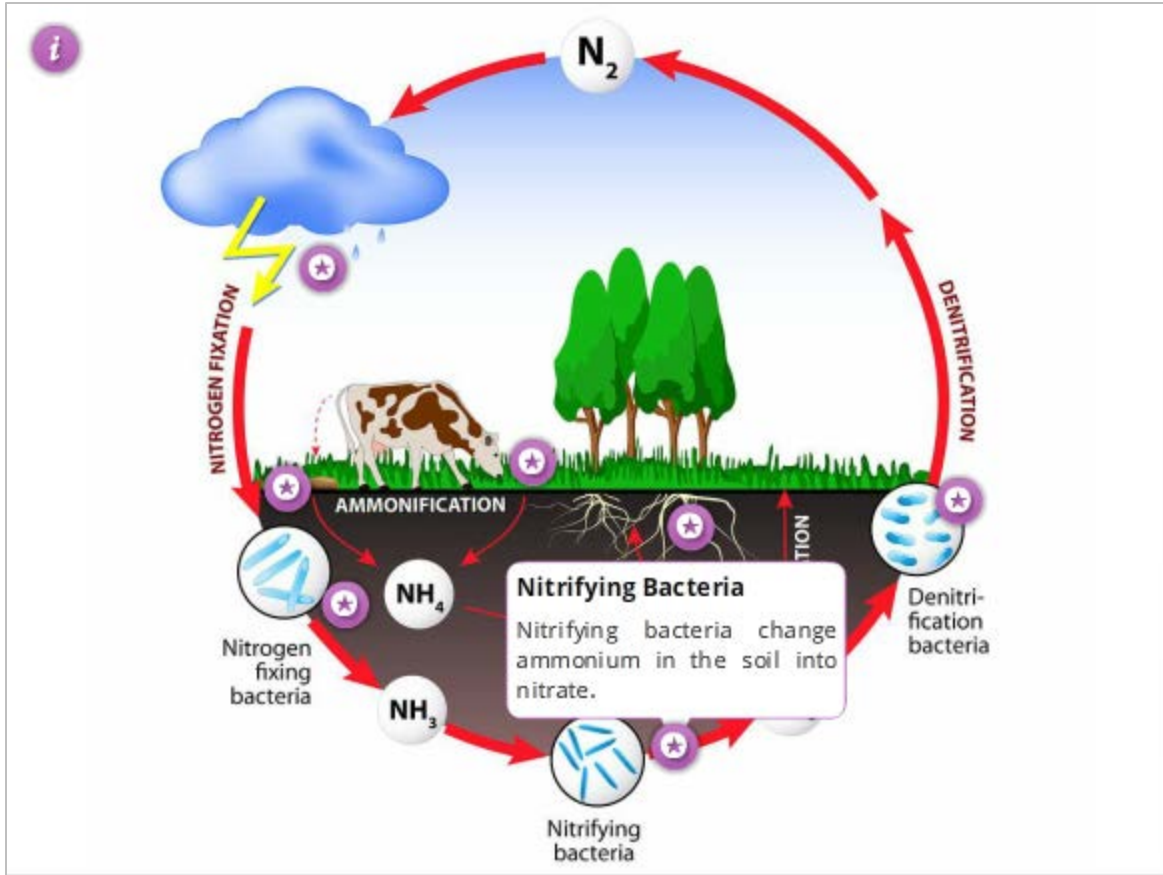
Topic 3 Content: The Nitrogen Cycle Notes



Plants Take In Nitrogen

Acting as producers, plants take in nitrogen from the soil. They convert the nitrogen into proteins and amino acids.

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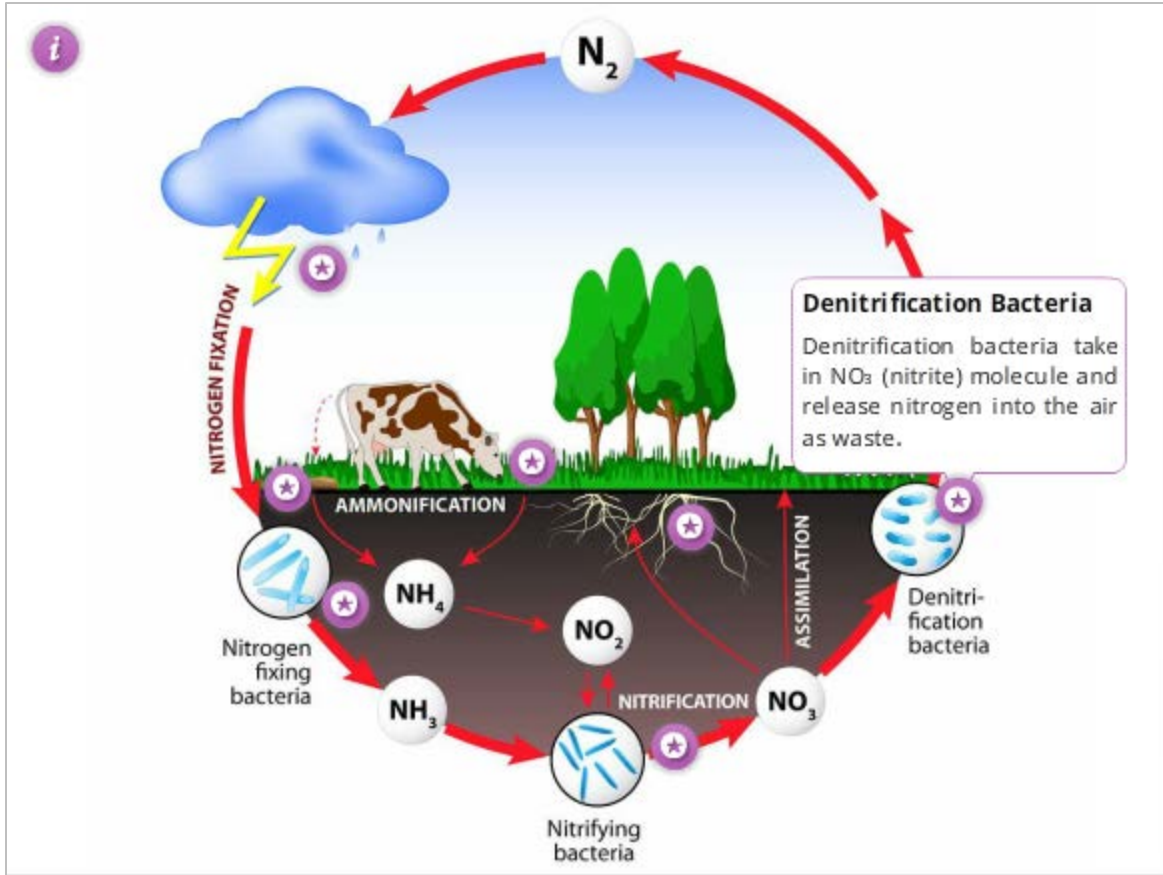


Nitrifying Bacteria

Nitrifying bacteria change ammonium in the soil into nitrate.

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Topic 3 Content: The Nitrogen Cycle Notes



Denitrification Bacteria

Denitrification bacteria take in NO_3 (nitrite) molecule and release nitrogen into the air as waste.