

Nitrogen Cycle

def: A cycle involving all the exchanges of N_2 on earth.

- organisms need N_2 to manufacture protein and DNA
- 78% of air made up of N_2 but the molecules are too big to be absorbed.

Definitions

Bacteria	Key to converting N_2 to usable forms
NH_3	Ammonia- dangerous to us
NH_4	Ammonium- not dangerous to us
NO_2	Nitrites
NO_3	Nitrates
N_2 fixation	Bacteria converts N_2 from air to ammonia
Nitrification	Bacteria converts NH_4 to NO_2
Denitrification	Bacteria converts NO_3 to N_2

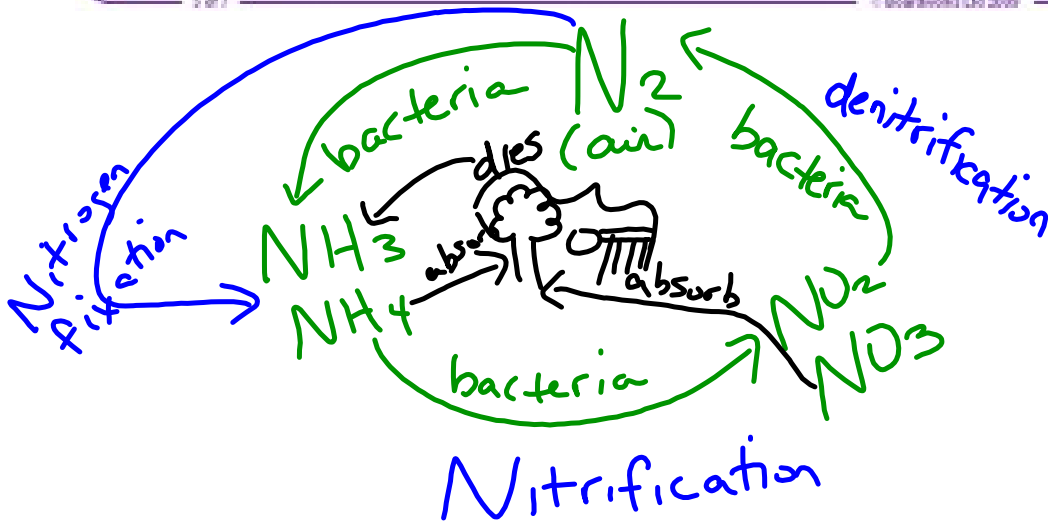
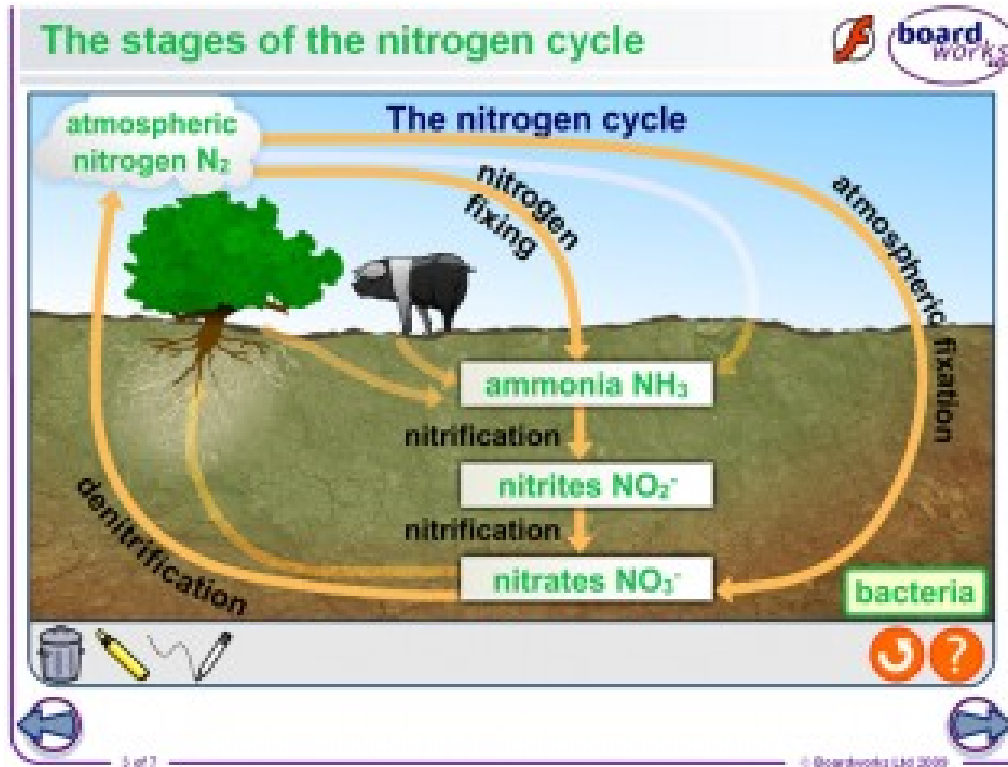
All of these processes occur in the lithosphere and hydrosphere.

The Nitrogen Cycle.mp4



Nitrogen Cycle.mp4





Past Exam Questions

1. Animals need nitrogen, but they are unable to capture atmospheric nitrogen. However, they can assimilate it through the nitrogen cycle.

Complete the nitrogen cycle diagram below by writing in each empty box the letter representing the corresponding process in the nitrogen cycle.

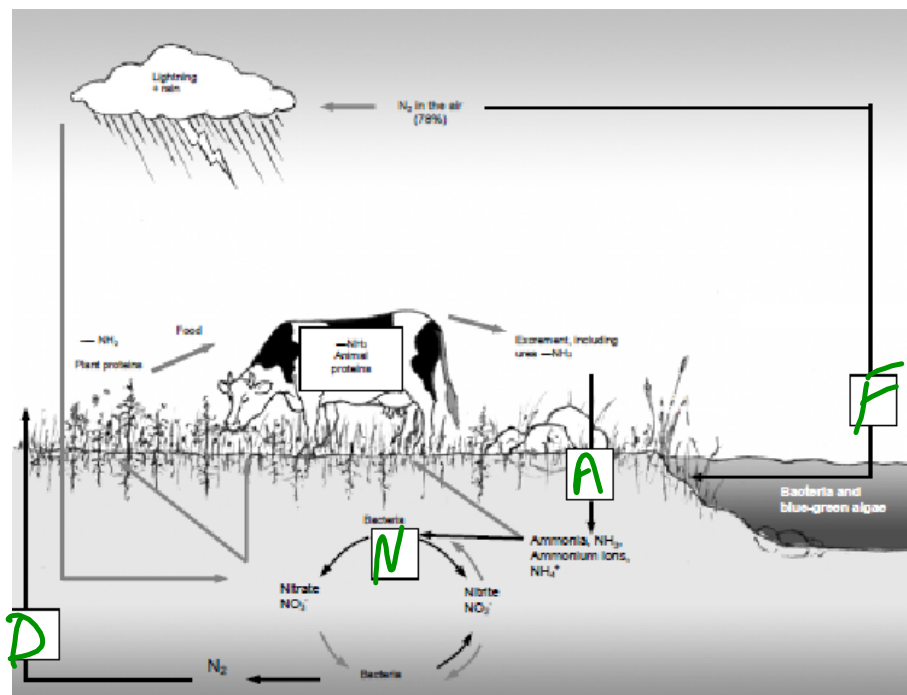
Refer to the following legend:

A = Ammonification and decomposition








D = Denitrification

F = Nitrogen fixation

N = Nitrification



Attachments

-  Nitrogen_Cycle.mp4
-  The_Nitrogen_Cyle.mp4
-  Eutrophication___Ecology_and_Environment___the_virtual_school.mp4
-  Eutrophication.mp4
-  EnviCat®_N20_-_catalysts_against_the_climate_killer_nitrous_oxide.mp4
-  Nitrogen Cycle.mp4
-  The Nitrogen Cyle.mp4