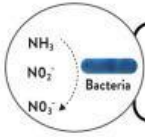


**Nitrogen Fixation**

atmospheric nitrogen gas (N_2) is converted into a compound such as _____

Plants get help from bacteria in the _____

**Nitrification**

conversion of _____ into nitrites and then nitrates

Nitrifying Bacteria

Ammonia-nitrifying bacteria - oxidizes ammonia (NH_3), and leaves nitrites (NO_2^-) as their waste product

•Use up ammonia and converts it to _____

Nitrite-nitrifying bacteria - oxidizes nitrites (NO_2^-) and leaves nitrates (NO_3^-) as their waste product

•Use up nitrites and converts it to _____

**Assimilation**

an organism takes in nutrients that are then changed to make new _____

_____ are converted into _____ by two enzymes located in plant cells.

Ammonia is used to make things like proteins and _____.

**Denitrification**

the conversion of _____ (NO_3^-) into nitrogen gas (N_2)

Denitrifying bacteria - consume _____ as a source of energy, and release _____ (N_2) as a waste product.

Nitrates are taken up by plants through their _____

Name _____

Word Bank: Nitrification Nitrogen Fixation Denitrification Assimilation

