

Word	Definition	Sentence	Picture
Decomposer			
Nitrogen Fixation			
Denitrification			

Questions (think of questions that might be on the exam):

**Nitrogen Requirements**

- All organisms require \_\_\_\_\_ to make amino acids that build \_\_\_\_\_.
- Many different forms of \_\_\_\_\_ occur naturally in the \_\_\_\_\_.
- Nitrogen \_\_\_\_\_ (N<sub>2</sub>) makes up \_\_\_\_\_% of the \_\_\_\_\_.

**Nitrogen locations outside the atmosphere**

- \_\_\_\_\_ (NH<sub>3</sub>), and other ions are in animal \_\_\_\_\_ and in \_\_\_\_\_ or \_\_\_\_\_ organic matter.
- Nitrogen also is in the \_\_\_\_\_ and other large bodies of \_\_\_\_\_.
- Humans add \_\_\_\_\_ to the \_\_\_\_\_ when they apply plant \_\_\_\_\_.

## **Nitrogen Fixation**

- \_\_\_\_\_ that live in \_\_\_\_\_ or on plant \_\_\_\_\_ (legumes) use forms of nitrogen \_\_\_\_\_ and change it into \_\_\_\_\_.
- This process is called \_\_\_\_\_.
- Other bacteria converts \_\_\_\_\_ into \_\_\_\_\_ and \_\_\_\_\_.
- \_\_\_\_\_ use these to make proteins and then \_\_\_\_\_ eat the producers to use the nitrogen and make their own protein.

## **Denitrification**

- When organisms die, \_\_\_\_\_ return \_\_\_\_\_ to the soil as ammonia.
- The \_\_\_\_\_ can be taken up by \_\_\_\_\_.
- Bacteria converts the \_\_\_\_\_ into nitrogen \_\_\_\_\_ by \_\_\_\_\_.
- Then nitrogen is released into the \_\_\_\_\_ again.

**Summary (write a 5-7 sentence summary that pertains to the notes):**

