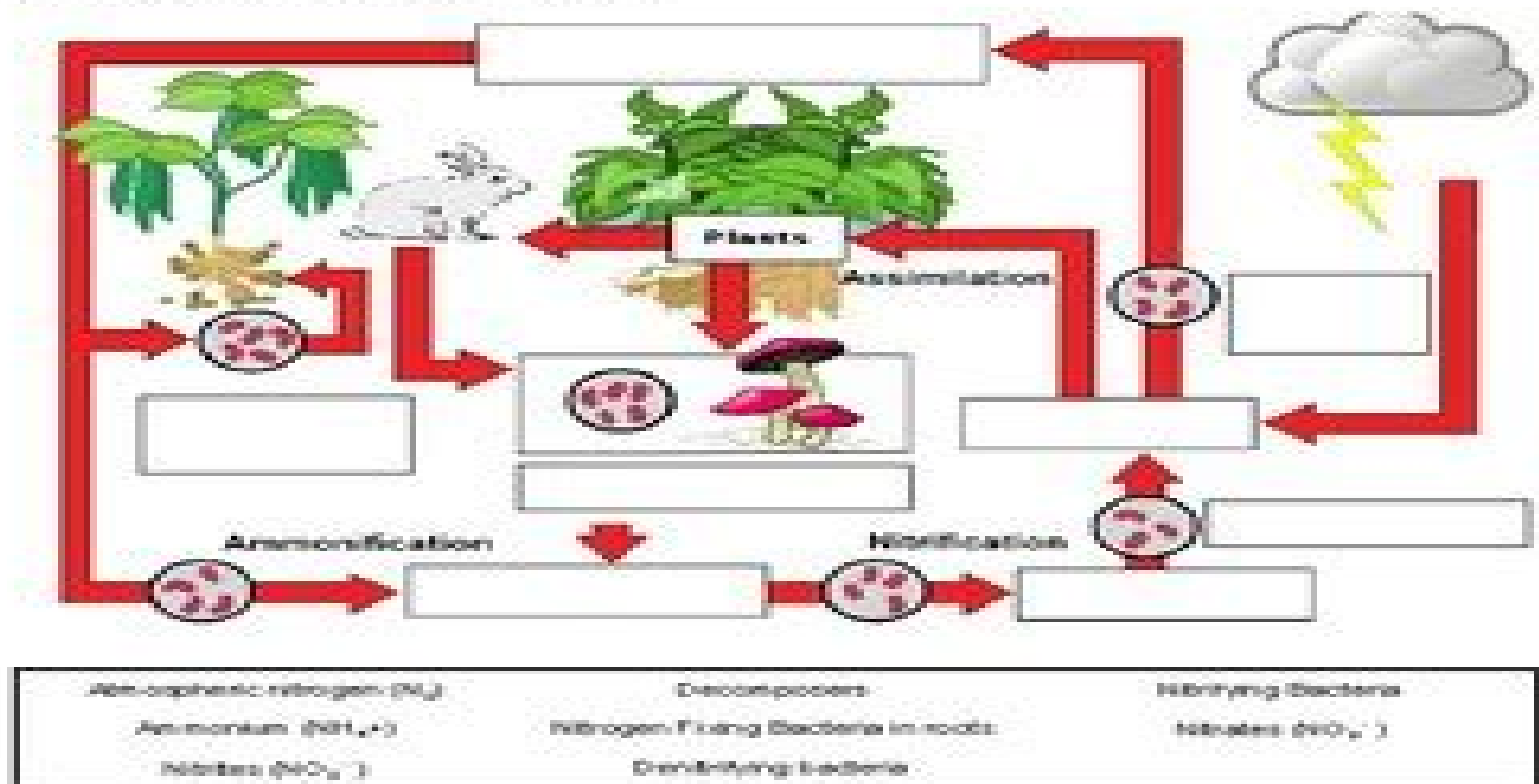


Understanding the Nitrogen Cycle

Nitrogen moves from the atmosphere into the soil. Earth's atmosphere contains a huge pool of nitrogen gas (N_2). But this nitrogen is "unavailable" to plants, because the gaseous form cannot be used directly. To be used by plants, the N_2 must be transformed through a process called **nitrogen fixation**. Fixation converts nitrogen in the atmosphere into forms that plants can absorb through their root systems.

A small amount of nitrogen can be fixed when lightning provides the energy needed for N_2 to react with oxygen, producing nitrogen dioxide, NO_2 . Most nitrogen fixation occurs naturally in the soil by bacteria. This process is called **ammonification** because it produces NH_4^+ (ammonium).

Nitrification occurs in soils when ammonium is converted to nitrates (NO_3^-). Nitrifying bacteria then convert it to NO_3^- nitrates. Nitrates are then taken up in the roots of plants in a process called **assimilation**. Denitrifying bacteria can return nitrogen to the atmosphere.



The Nitrogen Cycle Student Activity Sheet 1

JG Myers



The Nitrogen Cycle Student Activity Sheet 1:

Unveiling the Magic of Words: A Report on "**The Nitrogen Cycle Student Activity Sheet 1**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**The Nitrogen Cycle Student Activity Sheet 1**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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