

Activity 4

Find the words described in the following definitions

1. The biogeochemical process by which nitrogen is converted between different chemical forms, including atmospheric nitrogen (N_2), ammonia (NH_3), nitrates (NO_3^-), and organic compounds. It involves key processes such as nitrogen fixation, nitrification, assimilation, ammonification, and denitrification, enabling nitrogen to circulate through the atmosphere, soil, water, and living organisms.

2. The use of microorganisms, such as bacteria, yeast, or fungi, to carry out biochemical reactions for the production of valuable products, including enzymes, antibiotics, biofuels, and food ingredients. These processes typically occur in controlled environments like bioreactors and involve fermentation or other metabolic activities to convert raw materials into desired compounds.

3. Chemical substances produced by microorganisms or synthesized artificially that inhibit the growth of or kill bacteria, used primarily to treat bacterial infections.