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Nitrogen Cycle

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| **Across**  **5.** A group of microbes changes what back into nitrogen gas (N2) or nitrous oxide (N2O)?  **8.** The break down of the tissues of dead plants and animals is called what?  **9.** What is something bright that changes nitrogen gas into a form useful to plants?  **10.** Nitrogen gas (N2) must first be changed into ammonia (NH3). A diversity of bacteria have the proteins necessary to do this. This is called what?  **11.** Ammonia needs to be changed into what and then nitrate (NO3–)?  **12.** It can either be synthetic or natural and is important for plants to grow. What is it? | **Down**  **1.** Meat and eggs are common types of what?  **2.** What type of plant has nitrogen-fixing bacteria in root nodules?  **3.** The process of nitrifying bacteria bringing about the oxidation of ammonia (NH3) to nitrites (-NO2) and of nitrites to nitrates (-NO3) is called what?  **4.** What needs to be changed into nitrite (NO2–) and then nitrate (NO3–)?  **6.** Nitrogen gas (N2) must first be changed into ammonia (NH3). A diversity of what have the proteins necessary to do this?  **7.** A group of nitrogen-fixing organisms is composed of special bacteria, which live symbiotically in nodules on the what of certain plants? |