How Savanna Plants Get Nutrients Carbon This activity focuses on how **N**itrogen plants get these three nutrients **Phosphorus** from their environment. Carbon **DETRITIVORE Source:** Carbon dioxide (CO₂) in the air. **CARDS** Plants use CO₂ during photosynthesis to build organic compounds. During photosynthesis, light energy is converted into chemical energy and stored in carbon-containing sugar molecules, which are then used to make other molecules such as starch, cellulose, and other organic compounds. These organic compounds are food for all consumers in the ecosystem. See our animation for more details on photosynthesis: https://www.hhmi.org/biointeractive/photosynthesis Nitrogen **Source:** Ammonium (NH₄⁺) and nitrate (NO₃⁻) in the soil Plant nitrogen is found in amino acids, the building blocks of proteins, and nitrogenous bases, which are components of DNA, RNA, and ATP. **MICROBE Phosphorus** Source: Phosphate (PO₄³⁻) in the soil Plants use phosphate groups to make nucleotides for DNA and RNA, phospholipids for cell membranes, and ATP (energy carrier molecules). Use the cards to fill in the bubbles and discover how nutrients move through the savanna ecosystem.