Nitrogen Cycle

- Nitrogen (N₂) makes up 78% of the atmosphere.
- All organisms need nitrogen to build new cells
 - most organisms can't use the nitrogen straight from the atmosphere
 - nitrogen-fixing bacteria take nitrogen from the air and put it into chemical compounds that other organisms can use
- When organisms die, <u>decomposers</u> break down nitrogen from their cells and return it to the soil.
 - Nitrogen-fixing bacteria which live on the roots of plants make nitrates, which are eaten by animals

Phosphorous Cycle

- Phosphorous is an element that is part of many organisms
- Found in teeth and bones
 - o plants get phosphorous from soil and water
 - o animals get it from eating plants
- phosphorous enters soil and water due to <u>erosion</u> from rocks and <u>decomposition</u> of other organisms

Excess carbon dioxide, nitrogen, and phosphorous in the atmosphere can cause rain to be acidic (acid rain)