

# Matter and Energy

8.3

A. Energy flow – moves through a community as producers and consumers interact

1. Food chain – how food energy moves from one organism to another
2. Food webs – overlapping food chains to better show the way energy moves through an ecosystem

3. Ecological pyramids – bottom layer of pyramid represents ecosystem producers, top layers represent consumers
4. Energy pyramid – compares the energy available at each level of a food chain' bottom levels have more energy than top levels

B. Cycles of matter – matter that makes up living organisms, such as water, carbon, and nitrogen, recycled through the environment

1. Processes of evaporation, condensation, and precipitation make up the water cycle
2. Carbon, nitrogen phosphorus, sulfur and other elements needed by living organisms move through Earth's other cycles of nature.

- The Food Chain