Chapter 3–3 Cycles of Matter

Essential Questions:

- How does matter move among the living and nonliving parts of an ecosystem?
- How are *nutrients* important in living systems?

A. Recycling in the Biosphere

- Unlike energy, matter is recycled in ecosystems
- 2. Biogeochemical cycles
- 3. Matter is transformed, not used up

B. The Water Cycle

Water moves between earth & atmosphere



C. Nutrient Cycles

- 1. All chemical substances needed for life are nutrients
- 2. Nutrients are passed between organisms & environment in biogeochemical cycles
- 3. The Carbon Cycle where is carbon stored in biosphere?
- The Nitrogen Cycle nitrogen "fixing" bacteria on plant roots take N from atmosphere & put into soil
- 5. The Phosphorus Cycle





