

Life Science

Study Guide Chapter 20 Matter and Energy in the Environment

Vocabulary

Lesson 1

Ecosystem p.707

Abiotic factors p.707 - 709

- sun

- climate

- temperature

- water

- atmosphere

- soil

Biotic factors

Lesson 2

The Water cycle p.713-714

- Evaporation

- Condensation

- Precipitation

The Nitrogen cycle p.716

- Bacteria change the atmospheric nitrogen into a form plants can use

- Nitrogen Fixation

The Oxygen Cycle p.717 see diagram done in class

The Carbon Cycle p.718 see diagram done in class

The greenhouse effect p.719 greenhouse gases - water vapor, methane, carbon dioxide

- Carbon dioxide increasing in the atmosphere from burning fossil fuels

Lesson 3

Energy flows one direction.

Producers - photosynthesis

Chemosynthesis p.724

Consumers - classified by what they eat

- Herbivore, carnivore, omnivore, detritivore p.725

Food chains and food webs show energy flows through an ecosystem p.726-727

Energy pyramids - trophic levels - producers 1st level, consumers (herbivores) - 2nd level

consumers that eat other consumers - level 3 p.728

10% of the energy transfers from one level to another p.728