Chapter 5 – Sec. 5.1 -Energy Flow in Ecosystems

**Life Depends on the Sun:**

* ***Photosynthesis-***
* The result of photosynthesis is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a sugar molecule, also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Carbohydrates are rich in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and are used to carry out daily activities

**Producers and Consumers:**

* ***Producer***-
* Ex. If a rabbit eats clover, the rabbit gets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the clover, which produced its food through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Producers are also called “*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*”
* ***Consumer-***
* Also called “*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*”
* Producers get their energy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the sun, consumers get their energy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the sun

**What Eats What:**

* Herbivore
* Carnivore
* Omnivore
* Decomposer

**Cellular Respiration: Burning the Fuel:**

* How do organisms use the energy they get?
* ***Cellular Respiration-***
* It occurs inside \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Cells absorb \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and use it to release \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from food
* You use the energy you obtained through cellular \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ every time you:
* Walk, breathe, read a book, think, or play a sport

**Energy Transfer:**

* Every time an organism \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ another organism, a transfer of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs
* We can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ this energy transfer by studying food chains, food webs, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ levels

**Food Chain:**

* ***Food Chain-***

**Food Web:**

* ***Food Web-***

**Energy Pyramids:**

* ***Tropic Levels-***
* One way to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tropic levels is by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**How Energy Loss Affects an Ecosystem:**

* An amount of energy loss at each trophic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ affects the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an ecosystem
* Ex. African Savanna
* Zebras outnumber lions by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_
* There are not enough \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to support more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_