**Food Chains and Food Webs Notes**

1. In addition to **sunlight**, what two components does a producer need to perform “**photosynthesis**”?
2. What must every food chain **begin** with?
3. What is a **primary consumer**?
4. What is a **secondary consumer**?
5. What must happen **before** a lion can be used by a tree for nutrients?
6. **Draw** and **label** a **simple food chain** with the following components

|  |  |
| --- | --- |
| -One **producer**  -One **primary consumer**  -One **secondary consumer**  -One **decomposer** | \*Remember, the arrow heads show the flow of energy from one organism to the next, NOT “eating” another organism  Ex. Tree -> Giraffe is correct  Giraffe -> Tree is incorrect |

1. Draw a **food** **web** (complex food chain) with the following components

-One **producer**

-At least three **primary consumers**

-At least two **secondary consumers**

-At least one **tertiary** (third level) **consumer**

-At least one animal that has **multiple food sources**

1. Describe how humans actually get their energy (in a roundabout way) from the sun?
2. When a consumer eats another plant or animal, what percent of energy is actually transferred? How much energy is “lost”?
3. **Draw** and **label** the **energy pyramid** from the video below
4. Now that you know about energy transfer from one “link” in a food chain to the next “link”, how can we explain why elephants, cows, and horses (primary consumers) are so large compared to humans?