**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Class Notes**

|  |  |  |
| --- | --- | --- |
| **Flow of Energy through a Community** | | |
| **Producers:** | **Also known as\_\_\_\_\_\_\_\_\_\_\_\_\_ex.** | |
| **Consumers:** | **Also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_** | |
| **Types of Consumers** | | |
| **Primary Consumers**  **(1st Order Consumers)** |  | |
| **Secondary Consumers**  **(2nd Order Consumers)** |  | |
| **Tertiary Consumers**  **(3rd Order Consumers)** |  | |
| **Quaternary Consumers**  **(4th Order Consumer)** |  | |
|  | | Circle the **producers** in this picture:  Place a 1 by any primary **consumers** in this picture.  Place a 2 by any secondary **consumers** in the picture.  Place a 3 by any tertiary **consumers** in this picture. |
| The **arrows** in this picture represent: |
| This picture shows a: |
| **Food Web** |  | |
| One food chain from this picture would be: | | |
| **Food Chain** |  | |
| As you move through the food chain, energy is | | |
| Scientists estimate only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ passes from one level to the next. | | |
| Energy cannot be created or destroyed. Where does all of the energy for this community originate from? | | |
| Formula for Photosynthesis **in words:**  \_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_  **plants need energy plants release** | | |
| Formula for Photosynthesis **in chemical formulas:**  \_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_  (these are the **reactants or inputs**) (these are the **products or outputs**) | | |
| **Energy of Photosynthesis:**  Photosynthesis takes \_\_\_\_\_\_\_\_\_\_\_\_\_ energy  and transforms it into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy. | | |
| **Answer to the food chain decision:** | | |