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

**Class Notes**

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| --- |
| **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:** |