

STAAR Science Tutorial 10

TEK 7.5C: Food Web Energy Flow

TEK 7.5C: *Diagram the flow of energy through living systems, including food chains, food webs, and energy pyramids.*

Energy Flow in Ecosystems

- Almost all of the energy that supports life on Earth first came to Earth as **sunlight**, which is radiant or electromagnetic energy.
- Plants use the radiant energy in sunlight to rearrange the bonds in carbon dioxide (CO_2) and water (H_2O) to make sugar ($\text{C}_6\text{H}_{12}\text{O}_6$). This process is called **photosynthesis**. The full chemical equation for this reaction is: $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{radiant energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$. This chemical reaction changes radiant or electromagnetic energy into chemical energy.
- The bonds between the carbon, hydrogen and oxygen atoms in sugar store the **chemical** energy.
- Plants are collectively called the **primary producers** in food webs, because they produce all of the food that supports the rest of an ecosystem's life forms, using the photosynthesis energy conversion process.
- Herbivores, animals that eat only plants, get all of their energy from plants. In a food web, they are called **primary consumers**.
- All consumers use the chemical energy stored in plants by converting that energy into mechanical or thermal energy, in a chemical reaction called cellular respiration. The equation for cellular respiration is exactly the reverse of the photosynthesis reaction: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{energy}$.
- Animals that eat these herbivores (primary consumers) are carnivores or omnivores called the **secondary consumers**.
- Animals that eat the secondary consumers are called **tertiary** (third-level) **consumers**.
- A **food chain** or **food web** is a diagram that shows the flow of energy from the plants (primary producers) to the herbivores (primary consumers) to the omnivores and carnivores (secondary and tertiary consumers). The **arrows** in a food web show the **direction of energy flow**.
- A food chain shows only one possible sequence of energy flow, while a food web shows more of the alternate paths of energy flow. No food web can show all of the possible energy paths.

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