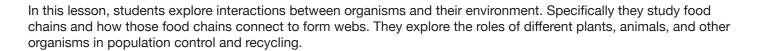




FOOD WEBS GRADES 3-5





DURATION

One to two 45-minute classroom periods

PRE-ASSESSMENT QUESTIONS

Please see Discussion Questions located under the video. These can be discussed as a group or answered individually in student science notebooks.

MATERIALS

- Large paper (yellow or orange if possible)
- Empty bulletin board or wall
- Long strips of colored construction paper (approximately 5 per student)
- Stapler or tape
- Yarn
- Scissors



ENGAGE

Prior to the start of the lesson create a large paper sun that will be posted on a wall. Ask students what they ate for breakfast. Make a list of their answers on the board. Ask students, did anyone eat sunlight for breakfast? State that the energy in everyone's food can be traced back to the sun and that in this lesson students will determine how that is true, and how humans and all living things are connected by a food web.

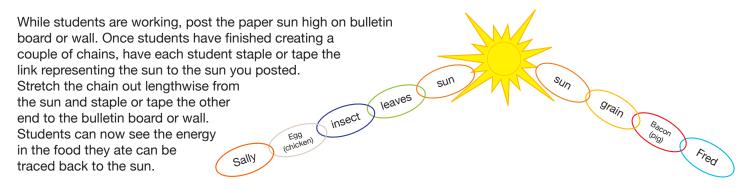




Return to the list of foods that students ate for breakfast. This might include things like toast, peanut butter, cereal, milk, orange juice, eggs, etc. Hand out strips of construction paper. Instruct each student to write their name on that strip. Staple or tape the strip into a loop shape. Now ask each student to write down one thing they had for breakfast, for example, an egg. They should write this on another strip of paper and make a link that connects to the link with their name. Where did that food come from? An egg comes from a chicken, so make a link for chicken and attach to the egg link. What does a chicken eat? (insects, seeds, grain) Choose one of those items and make a link. Say you chose insects, what do they eat? (leaves) Make a link for leaves. What do leaves eat? Leaves produce their own food through photosynthesis using sunlight. Make a link for the sun. Each student should now have a multi-link food chain that connects them to the sun.



Have students repeat this process with another breakfast item, maybe bacon (bacon comes from pigs, which might eat grain, which is a plant which produces food through photosynthesis and connects to the sun).







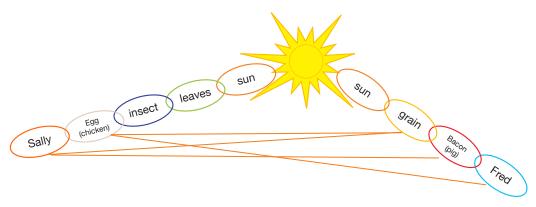
WATCH THE GENERATION GENIUS FOOD WEBS VIDEO AS A GROUP

Then facilitate a conversation using the Discussion Questions.





After watching the video, the students should be able to find some connections between the food chains that they made. For example, a chicken might also eat grain. Sally might also eat bacon. She also eats grains. Fred also eats eggs. Using yarn, allow students to find and make these connections between the food chains posted earlier during the Explore portion of the activity. Together the class will create a food web.





Using the food chain the class made, instruct students to answer a series of questions in their science notebooks:

- What is the apex predator in this food web? (humans)
- Give an example of a producer in our food web. (grain, leaves)
- Where does the energy in an egg come from? (The energy in an egg originally came from the sun. A plant used the sun's energy to produce leaves, an insect gained energy by eating those leaves, and a chicken that laid the egg gained energy by eating the insect.)



- Research a problem related to human impacts on food webs and design possible solutions.
- Study other food web examples from your region.

