



Maintaining Biodiversity Activity for Kids

Food Web Model DIY



Duration: **20–30 min**



Difficulty: **Easy**



Cost: **\$0 to \$10**

Learn how to make a model of a food web and see what happens when one living thing is removed!

Material List

- 15** Paper or Plastic Cups
- 1** Roll of Scotch Tape
- 1** Sheet of images of living things
- 1** Pair of Scissors

Instructions

- 1** Cut out the images and tape them on the cups.
- 2** Use the cups to show where each organism gets its energy from. For example, grass gets its energy from the sun, the ant gets its energy by eating the grass, the lizard gets its energy by eating the ant, the snake gets its energy by eating the lizard, and the eagle gets its energy by eating the snake.
- 3** To build the food web (which shows where each organism in the ecosystem gets its energy from), stack the labeled cups on top of one another, starting with the plants and going upward until you get to the apex predator (the eagle).
- 4** To show what happens when one living thing is removed from the food web, take out one of the cups. You will see that the food web collapses.

How It Works

When you remove one of the cups, the food web collapses. Ecosystems can collapse due to one living thing dying out. This is why it is important to maintain biodiversity in an ecosystem. Each organism has a role to play. This was shown in the video with the starfish example, removal of the starfish from the ecosystem caused it to collapse.

