

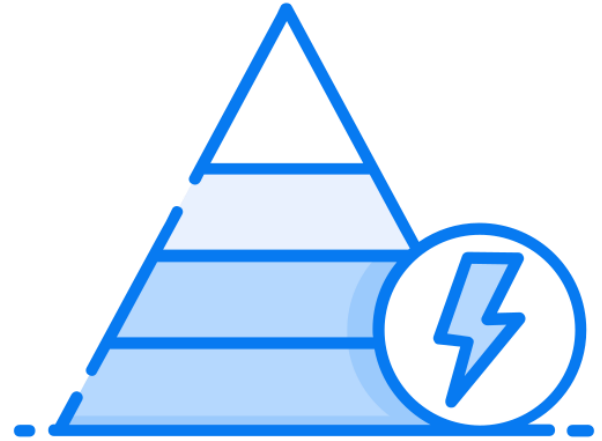
Biology Bricks Activity

Energy Flow

Food chains show what eats what in a line or web, and each level uses less and less energy as a result. Find out more about how by using this simple experiment.

You will need:

- 10ml graduated cylinder
- Cup filled with 100ml of water
- Medicine dropper
- Three small paper cups



Instructions

1. Label cup #1 “first-level consumer”, cup #2 “second-level consumer”, and cup #3 “third-level consumer”. The large cup filled with 100ml water represents the producer. Assume that the producer created 100 units of energy.
2. A first-level consumer eats the producer and absorbs only 10 percent of its energy. Use the graduated cylinder to pour 10ml of the producer’s water into cup #1.
3. The second-level consumer eats the first level consumer and gets only 10 percent of its energy. Use the graduated cylinder to pour 1ml of water from cup #1 into cup #2.
4. The third-level consumer eats the second-level consumer and gets only 10 percent of its energy. Use the medicine dropper to transfer 0.1ml of water from cup #2 to cup #3.