



Self-Watering Plant System

Brief Description: Teach about plant growth or methods of recycling with this fun, affordable activity. Students can create self-watering plant systems for experiments and research opportunities or to care for small plants.

Objectives: Students will be able to identify that plants have the basic necessities of air, water, food and space.

Materials: Plastic water bottles (with caps), string, soil, seeds, water, scissors

Activity:

1. Remove the wrapper from the water bottle and cut in half.
2. Punch a small hole in the cap and string the string through the hole.
3. Put the cap back on the water bottle and flip the top half of the bottle into the bottom half.
4. Fill the bottom with water, wet the string, and fill the top half with soil.
5. Plant seeds in the soil and watch them grow!



Self-Watering Plant System Science Standards	
SC.1.L.14.2	Identify the major parts of plants, including stem, roots, leaves, and flowers.
SC.1.L.17.1	Through observation, recognize that all plants and animals, including humans, need the basic necessities of air, water, food, and space.
SC.3.L.14.2	Investigate and describe how plants respond to stimuli (heat, light, gravity), such as the way plant stems grow toward light and their roots grow downward in response to gravity.
SC.3.L.17.1	Describe how animals and plants respond to changing seasons.
SC.3.L.17.2	Recognize that plants use energy from the Sun, air, and water to make their own food.
SC.3.L.14.1	Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.
SC.4.L.16.1	Identify processes of sexual reproduction in flowering plants, including pollination, fertilization (seed production), seed dispersal, and germination.