# Race to the Top!

## **Objective:**

Students will compare and contrast the rates of growth of different varieties of beans.

### You'll Need:

- Containers (half-gallon milk cartons or 2-liter bottles)
- Potting soil
- Bean seeds (a variety: lima, pinto, soybean, peas, bush beans, etc.)
- String
- Water
- Permanent makers
- Tape

#### Procedure:

Before you begin: Ask students to predict which variety of beans will germinate first and which will grow the tallest. Record predictions.

#### Then

- 1. Cut the milk cartons or 2-liter bottles to create 6-inch tall planters. (Be sure to use the same type of planter for each seed variety.
- 2. Label the containers with the variety of seed to be planted and the date. Fill the containers with potting soil.
- 3. Plant bean seeds in the labeled containers and place under a plant light or on a well-lit windowsill.
- 4. Attach one end of a string to the counter beside each container and connect the other end of the string to a ceiling tile.
- 5. Keep the soil moistened but not overly soaked. Each planter should receive an identical amount of water.
- 6. Watch for signs of growth. Compare with your predictions.
- 7. Wrap young plants around the string as they grow. Measure growth and record data in plant journals.
- 8. Check your predictions and revise as needed.