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## Student Exploration: Growing Plants

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** compost, fair test, fertilizer, mass, seed, soil, variable

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. What do you think plants need to grow and stay healthy?

To develop and maintain excellent health, plants require water, healthy soil, and sunlight.

2. **Soil** is a combination of tiny rock fragments and decayed plant materials. How do you think soil helps a plant?

The nutrients plants require to keep healthy are provided by the soil.

### Gizmo Warm-up: Grow the Biggest Plant!

1. In the Gizmo set up the four pots however you like:
- Choose a **seed** to drag into each pot.
  - Click on the light bulbs to turn them on or off.
  - Drag the **Water** slider up or down to set the amount of water each plant will get.
  - If you like, drag **fertilizer** or **compost** into a pot.
  - When the pots are ready, click **Play** (▶) and wait for the simulation to end.



2. How tall was your tallest plant?

My tallest plant measures 54.3 cm in height.

3. Click **Reset** (↺) and **Clear pots**. Run a few more trials to grow the tallest plants you can. What conditions led to the tallest plant?

The circumstances with 60ml of water and compost produced the tallest plant ( I used the bean seed).

# Growing Plants Gizmo Answers

**Albert A Gayle**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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