

FULTON FRESH KITCHEN SCIENCE

Bean-in-a-Bottle

Beans may come in cans, but did you know you can grow your own?

SAFETY FIRST! Youth should always have parent supervision when performing science experiments.

MATERIALS

- Garden soil
- Bean seeds
- Empty plastic drink bottle or other container
- Scissors
- String

PROCEDURE

1. Stand the bottle upright and cut the water bottle in half, horizontally, along the middle like the equator.
2. Remove the bottle cap and assist kids with cutting a small hole in the bottle cap.
3. Cut a string that is about five inches long.
4. Poke the string through the hole in the cap and tie a knot on the inside of the cap. Screw the cap back onto the top section of the bottle.
5. Now, fill $\frac{3}{4}$ of the bottom section of the bottle with water.
6. Take the top half of the bottle and place it upside down, inside the bottom half of the bottle. The cap should not be touching the water.
7. Fill the top half of the bottle with soil. Press a bean seed into the soil and cover with about $\frac{1}{2}$ inch of soil.
8. Place the Bean in a Bottle in a sunny location either inside or outside, and watch your bean grow! Don't forget to change out the water when it begins to color.

Visit our website or social media channels for a
follow-along video of this experiment.

www.ugaextension.org/fulton

This lesson was adapted from the National 4-H Council: <https://4-h.org/parents/stem-agriculture/youth-stem-activities/bean-in-a-bottle/>

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Bear-in-a-Bottle

Why did the coffee bean hide in the tree? He heard he was going to be grounded!



DID YOU KNOW?

August 20th is National Lima Bean Respect Day, and there are over 125 lima bean farms across Georgia.

LEARN MORE

Dig deeper into dirt on the Soil Science Society of America website! This comprehensive resource has soil experiments, games, career connections, and more! Visit www.soils4kids.org to get started.

CAREER CONNECTION

This science experiment involves biology, botany, and agriculture. There are many different types of careers in these fields, such as a researcher, farmer, and horticulturists.

Share a picture of your experiment with us on social media with the hashtag [#localfoodmadefun](#).

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