

Experiment 3: Bean Sprouting

Materials

- 6 Broad bean seeds:
- Large clear plastic bottle
- Paper towel
- Scissors
- Water
- Rulers

Instructions

An adult should help to make the plastic jar, as this could be dangerous.

Step 1

Cut off the top and the neck from the plastic bottle - 4 cm off the top of the remainder of the bottle to make a plastic ring and set aside.

Step 2

Put three sheets of paper towel together and fold in half.

Step 3

Place the folded towels inside the container around the edge.

Pour water into the container until it is about 3 cm deep.

Step 4

Push the plastic ring into the container to support the paper towels:

- 1 - Container
- 2 - Paper towels
- 3 - Plastic ring

Step 5

Push the beans in between the paper and the outside wall of the container.

Step 6

Leave the container in a warm place for 2-5 days. Ensure the paper towels stays moist.

Observe the bean sprouts! What do you notice?

What will you see?

In about a week the beans should begin to sprout. You will see the start of the root and stem coming out at first. If you keep observing, you will see that no matter how the beans face the roots will always head downwards and the stem always heads upwards. Aren't plants amazing?