

Name:

Date:



The rotating root

✓ You will need:

- 1 swollen bean,
- 1 screw top jar, 1 cork,
- 1 sewing needle, scissors,
- waterproof glue, cotton wool

🔧 What you need to do:

- Glue the cork tightly to the lid of the jar.
- Dampen the cotton wool thoroughly and place it in the jar.
- Push the point of the needle into the bean BE CAREFUL not to stick it in the eye of the bean.
- Push the other end of the needle into the cork and seal the jar.
- Open briefly every day and turn the jar 90 degrees clockwise for 5 days.

🔧 Draw your experiment in the jar!

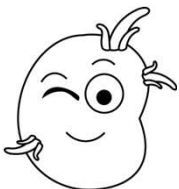


Observation:

After a few days, a _____
will sprout from the bean.

The root always grows
_____. Rotating the
jar 90° causes the root to grow
in an _____.

Explanation:



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The rotating root

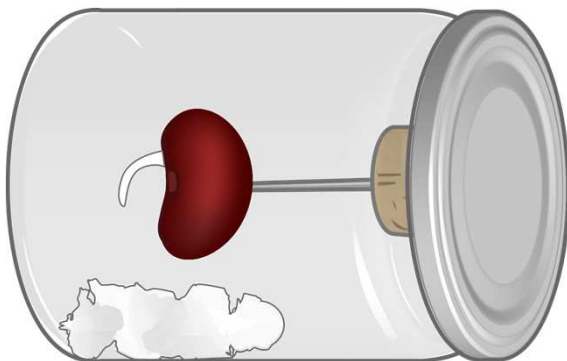
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🔧 Draw your experiment in the jar!



Observation:

After a few days, a root will sprout from the bean.

The root always grows downwards. Rotating the jar 90° causes the root to grow in an arc.

Explanation:

Roots always grow downwards.

They respond to the Earth's gravitational attraction.

When sowing seed, it therefore does not matter how they are placed in the ground.

