



GROWING PLANTS FROM CUTTINGS IN WATER



Plants can grow new roots from cuttings.
With water, time, and care, a cutting can become a new plant!

Name: _____ Date: _____ Experiment #: _____



QUESTION

Can a plant cutting grow roots in water?



HYPOTHESIS

If I place a healthy plant cutting in water,
then it will grow roots.

(Why do you think this will happen?)



MATERIALS

- 1 healthy plant (pothos, philodendron, coleus, mint, or similar)
- Clean scissors or pruning shears
- Glass jar or clear cup
- Water
- Labels (optional)
- Notebook or observation sheet
- Ruler (optional)



SAFETY

- Use scissors carefully. Ask an adult if needed.
- Do not consume any part of the plant.
- Keep the area clean and dry.



RESULTS

Did your hypothesis come true?

☐ Yes ☐ No

What happened?



PROCEDURE

1. Choose a healthy plant. Look for a stem with at least one leaf node (the small bump on the stem where leaves or roots grow).
2. Use clean scissors to cut a 4–6 inch (10–15 cm) piece of stem just below a node.
3. Remove any leaves that will be below the waterline.
4. Place the cutting in a glass jar or cup with enough water to submerge the node(s).
5. Put the jar in a spot with bright, indirect light.
6. Change the water every 2–3 days to keep it fresh.
7. Observe the cutting over the next few weeks.
Record your observations.



OBSERVATIONS

Date	What do you see? (changes in leaves, stem)	Roots? (Y/N)	Root Length (approx.)



CONCLUSION

What did you learn from this experiment?

What will you try next?



PLANT CARE TIP

Once your cutting has strong roots (about 2–3 inches / 5–7 cm long),
you can plant it in soil!

