



GROWING AVOCADO TREES FROM PITS

— Comparing Growth Rates —



QUESTION: Do avocado pits grow at the same rate, or do some grow faster than others?

Name: _____ Date Started: _____



PURPOSE

To grow multiple avocado pits under the same conditions and compare their growth rates over time.



MATERIALS

- 3–5 avocado pits
- Toothpicks (3 per pit)
- Glass jars or cups
- Water
- Ruler (cm)
- Notebook or this lab sheet
- Optional: labels or tape and marker
- Sunny windowsill or bright location



PROCEDURE

1. Rinse avocado pits and remove any fruit left on them.
2. Insert 3 toothpicks into each pit around the middle. Suspend each pit over a jar of water so the bottom half is in the water.
3. Place all jars in the same location with good light.
4. Keep the water level high enough to keep the bottom half of each pit in the water. Change the water every 2–3 days.
5. Observe your pits daily or every few days.
6. Measure and record the height of the sprout (from the top of the pit to the tip of the tallest leaf or stem) and the length of the roots (from the bottom of the pit to the end of the longest root).
7. Continue for at least 6–8 weeks for best results.



TIPS

- Not all pits will sprout—that's okay!
- Be patient. Roots usually grow before leaves.
- Keep all conditions the same for a fair test.



DATA TABLE

Record your measurements in centimeters (cm).
Add more rows if needed.

Date	Pit 1		Pit 2		Pit 3		Pit 4		Pit 5	
	Sprout Height (cm)	Root Length (cm)	Sprout Height (cm)	Root Length (cm)	Sprout Height (cm)	Root Length (cm)	Sprout Height (cm)	Root Length (cm)	Sprout Height (cm)	Root Length (cm)



ANALYSIS QUESTIONS

1. Which pit grew the tallest sprout? _____
2. Which pit had the longest roots? _____
3. Which pit grew the fastest overall? Why do you think so?

4. Did any pits not sprout? What might be the reason?

5. What did you learn from this experiment?



CONCLUSION

Write a short conclusion using your results.

Keep growing! After your experiment, you can pot your avocado trees in soil and keep caring for them.