



Growing Different Varieties of Lettuce and Comparing Growth Rates



OBJECTIVE: To grow different varieties of lettuce under the same conditions and compare their growth rates.

MATERIALS

- 3 or more varieties of lettuce seeds (e.g., Romaine, Green Leaf, Red Leaf)
- 3 or more small pots or containers (with drainage holes)
- Potting soil
- Watering can or spray bottle
- Ruler (cm)
- Plant labels
- Notebook or this lab sheet
- Sunny location or grow light



THINGS TO KEEP THE SAME (CONSTANTS)



Light: Same location / same hours of light



Water: Same amount and frequency



Soil: Same type and amount



Temperature: Keep as consistent as possible



Airflow: Keep similar for all plants

PROCEDURE

1. Label each pot with the name of a different lettuce variety.
2. Fill each pot with potting soil.
3. Plant the seeds according to the package instructions (same depth and spacing for each variety).
4. Place all pots in the same location where they will receive the same amount of light.
5. Water all pots the same amount each day.
6. Measure the height of the tallest seedling in each pot every 2–3 days.
7. Record your data in the table.
8. Continue recording for at least 3–4 weeks.

WHAT TO OBSERVE

- How quickly each variety sprouts
- How tall the seedlings grow over time
- Leaf size, color, and overall plant health
- Any differences between the varieties



Romaine



Green Leaf



Red Leaf

DATA TABLE: Record the height of the tallest seedling in each pot (in centimeters)

Date (Day)	Variety 1:	Variety 2:	Variety 3:	Variety 4:	Observations / Notes
Day 0 (Planting Day)					
Day 2–3					
Day 5–7					
Day 10–12					
Day 14–17					
Day 21					
Day 28					

ANALYSIS & CONCLUSION

1. Which variety grew the fastest? _____
2. Which variety grew the slowest? _____
3. What factors might have affected the growth of your lettuce? _____

4. What did you learn from this experiment? _____

