



SCIENCE EXPERIMENT



Growing Bean Seeds in Different Soil Types

Name: _____

Date: _____

Week Start: _____

? QUESTION

How do different soil types affect the growth of bean seeds?

💡 HYPOTHESIS

I think _____

because _____



MATERIALS

- Bean seeds (same type)
- 4 small pots or clear cups (with drainage or holes)
- 4 different soil types:
 1. Potting soil (garden soil)
 2. Clay soil
 3. Sandy soil
 4. Compost or rich organic soil
- Water
- Ruler
- Labels or tape and marker
- Notebook or this lab sheet

📋 PROCEDURE

1. Label each pot with the soil type: Potting Soil, Clay Soil, Sandy Soil, Compost Soil.
2. Fill each pot with its corresponding soil type.
3. Plant 3 bean seeds in each pot about 1 inch deep. Cover lightly with soil.
4. Water each pot the same amount (about $\frac{1}{4}$ cup) and place them in the same spot with sunlight.
5. Water each pot the same amount every day.
6. Observe and measure the plants for 14 days.
7. Record your observations in the table below.

🔍 OBSERVATIONS

Measure height from the soil surface to the top of the tallest sprout.

Day	Potting Soil Height (cm)	Clay Soil Height (cm)	Sandy Soil Height (cm)	Compost Soil Height (cm)	Observations (leaf size, color, number of sprouts, etc.)
Day 0 (Planted)					
Day 3					
Day 7					
Day 10					
Day 14					

★ CONCLUSION

Which soil type grew the tallest plants? _____

Which soil type had the healthiest plants? _____

What did you learn from this experiment? _____

Would you like to try anything different next time? _____



TIP: Be patient and keep your pots in the same place with good sunlight. Keep the water amount the same for each pot.