

Scientific Skills — Full Revision

Name:

Date:

INQUIRY

Lab safety, scientific method, variables, measurement, and data — the tools every scientist needs.

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Hypothesis	Testable prediction.
IV/DV/CV	Changed/measured/controlled.
SI units	Standard international units.
Fair test	Only one variable changes.

Full Revision (28 marks)

1. Name 3 lab safety rules and explain why each matters. [3 marks]
2. Write a hypothesis for: 'Does the mass of a ball affect how far it rolls?' [2 marks]
3. Identify IV, DV, and 2 CVs for: 'Does soil type affect plant growth?' [3 marks]

4. Convert: 0.75 km to metres and 2,400 mL to litres. [2 marks]

Show your working:

5. A student's results: 5.2, 5.3, 5.1, 8.7, 5.2. Identify the anomaly. Should they include it in the mean? Explain. [3 marks]