

# The Scientific Method

Name:

Date:

**INQUIRY**

**A student says 'I think green tea stays hot longer than black tea.' Is this a hypothesis? How would you test it?**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
<b>Hypothesis</b>	A testable prediction based on observations.
<b>Fair test</b>	Only ONE variable changes; everything else stays the same.
<b>Conclusion</b>	A statement about what the results show.

## Part A — Steps

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1. Put the scientific method steps in order: Conclusion, Hypothesis, Results, Method, Question, Analysis. [2 marks]
  
2. Turn this observation into a hypothesis and a testable question: 'Plants near the NIS window grow taller.' [3 marks]

## Part B — Design

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**3.** Design a fair test: Does the temperature of water affect how fast sugar dissolves? State: (a) independent variable (b) dependent variable (c) 3 controlled variables (d) equipment needed. [5 marks]