

Variables

Name:

Date:

INQUIRY

Korean scientists tested whether kimchi ferments faster at higher temperatures. What did they change? What did they measure? What did they keep the same?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Independent variable (IV)	The variable you deliberately CHANGE.
Dependent variable (DV)	The variable you MEASURE.
Controlled variable (CV)	Variables kept the SAME to make it fair.

Part A — Identifying

1. For each experiment, identify IV, DV, and 2 CVs: (a) Does fertiliser help plants grow taller? (b) Does the colour of a surface affect how fast it heats up? (c) Does the length of a pendulum affect its swing time? [6 marks]

Part B — Application

2. A student tests: 'Does the type of paper airplane design affect flight distance?' They throw each design once from a chair. Name TWO problems with this method and suggest improvements. [4 marks]