

# Measurement & Units

Name:

Date:

**INQUIRY**

The Shanghai Maglev is measured in km/h, temperature in Celsius, and mass in kilograms. Why does everyone use the same units?

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
SI units	International System: metres, kilograms, seconds, etc.
Accuracy	How close a measurement is to the true value.
Precision	How close repeated measurements are to each other.

## Part A — Units

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1. State the correct SI unit for: (a) length (b) mass (c) time (d) temperature (e) volume. [5 marks]

2. Convert: (a) 2.5 km to m (b) 450 mL to L (c) 3,200 g to kg. [3 marks]

Show your working:

## Part B — Accuracy vs Precision

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3. A student measures a 30 cm ruler three times: 29.8, 29.9, 30.1 cm. Another student gets: 28.0, 31.5, 27.2 cm. Who is more accurate? Who is more precise? Explain. [4 marks]