

# The Solar System

Name:

Date:

**INQUIRY**

**China's Tianwen-1 landed on Mars in 2021, making China the second country to operate a rover there. How far did it travel?**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
<b>Solar system</b>	The Sun and everything orbiting it.
<b>Planet</b>	Large body orbiting a star, cleared its orbit.
<b>Astronomical unit</b>	1 AU = Earth-Sun distance = 150 million km.

## Part A — Knowledge

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1. List the 8 planets in order from the Sun. Classify each as rocky or gas giant. [4 marks]

2. Explain 3 differences between inner (rocky) and outer (gas) planets. [3 marks]

## Part B — Application

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**3.** Mars is 1.52 AU from the Sun. If 1 AU = 150 million km, how far is Mars from the Sun? [2 marks]

Show your working:

**4.** China's Zhurong rover travels at about 200 m per hour. If it needs to cover 2 km, how long will it take? [2 marks]