

# Friction & Air Resistance

Name:

Date:

**INQUIRY****Why do Olympic speed skaters at Beijing 2022 wear skin-tight suits?**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
<b>Friction</b>	Contact force opposing motion between surfaces.
<b>Air resistance</b>	Drag from air.
<b>Terminal velocity</b>	When air resistance equals weight — constant speed.

## Part A — Friction

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1. Give 2 examples where friction is helpful and 2 where it is a problem. [4 marks]

2. Why do chopsticks need friction? What would happen if they were perfectly smooth? [2 marks]

## Part B — Terminal Velocity

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**3.** Describe a skydiver's speed from jump to landing. Use: gravity, air resistance, terminal velocity, balanced, unbalanced. [5 marks]