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Forces at work: Friction and grip

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Slide 2

Forces: Curling

What is curling? Curling is a team sport, played on ice, where two teams take turns to slide stones made of granite towards a target. When a team member delivers a stone, their teammates sweep the ice in front of it to heat the ice up slightly and extend its slide.

Click here for a brief introduction

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Slide 3

How many different kinds of shoes can you think of?

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Slide 4

How well do these shoes grip?

Vs

Vs

Vs

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Slide 5

Defining grip and friction

How much grip something has is determined by how much friction it causes with the surface.

friction

noun

The force that makes it difficult for one object to slide along the surface of another or to move through a liquid or gas.

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Slide 6

Friction forces

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Slide 7

What's missing?

Pulling force

Friction force

Bench

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Slide 8

What's missing?

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Slide 9

What does friction do?

- More grip means more friction
- More friction will mean less speed

Friction

Speed

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Slide 10

Lab activity: Measuring friction

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