

# Investigating Friction

Friction is a force. A Newton meter measures how much force is used to pull something. You are going to investigate different surfaces to find out which surface produces lots of friction and which produce not much friction.

**You will need:**

- A heavy object
- A Newton meter
- String to tie around the object and attach to the Newton meter
- Different surfaces, some rough some smooth

**What to do**

Tie the string around the heavy object and then attach it to the Newton meter. Place the object on one surface at a time. Pull the Newton meter until the object starts to move. Look at the number on the Newton meter. The higher the number the more force has been used.

**Prediction**

(Explain which surface you think will make the most friction and which you think will make the least.)

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**Results**

The surfaces that needed lots of force to move the object were \_\_\_\_\_

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This means they created lots of / not much friction (cross out the words you don't need).

The surfaces that needed not much of force to move the object were \_\_\_\_\_

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**Prediction**

(Explain what you think will happen and give reasons.)

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**Results**

The surfaces that needed lots of force to move the object were \_\_\_\_\_

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This means they created \_\_\_\_\_

The surfaces that needed not much of force to move the object were \_\_\_\_\_

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This means they created \_\_\_\_\_

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**Method**

(Write how you could test the friction made by different surfaces.)

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**Prediction**

(Remember to give reasons for your prediction.)

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**Results**

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