

Thursday, 11th March 2021

L.O: To investigate friction

Starter

Match the correct answer

Forces can't be seen
but

pairs

They are measured in

the effects of a force can be
seen

They usually act in

speed up, slow down, change
direction, turn or change
shape

They can make objects

Newtons (N)

What is the boy finding hard to pull the sleigh?



What is 'friction'?

Friction is a force between two surfaces that are sliding, or trying to slide, across each other. Friction causes object to slow down the stop while changing the energy into heat.

 <https://www.bbc.co.uk/bitesize/topics/zsxxsbk/articles/zxqrdxs>

Read the text, 'Friction' in pairs

As you read, answering these key questions.

- What is another name for heat energy?
- What kind of friction warms your hands when you rub them?
- Why do cars hydroplane?
- What can we use to reduce friction?
- What are the two factors that impact friction?

Measuring Friction

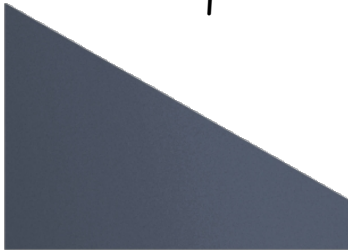
Just like gravity, we measure friction in 'Newtons' and is written as 'N'.



We can use a forcemeter to measure friction like we did for gravity

Investigate and Report

We will be investigating effect of Friction on a 'car on the ramp' when launched on different surfaces.



Before we conduct the experiment answer the following questions in your books.

- What experiment are we carrying out to test Friction?
- Make a prediction - Which surface will the car travel the most and which will it travel the least.
- How can we make sure we are carrying out a fair test?

Investigate and Report

We are investigating effect of Friction on a 'car on the ramp' when launched on different surfaces.

Draw this table in your books

Material	Distance (Cm)

Complete the table using the findings from the experiment and explain your finding in your own words.



What do you think happened in this picture?

What would happen if there was no friction on earth?