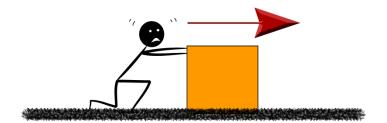


Unit 4E: Friction



Friction















Useful Words

Friction	A force acting	between	two surfaces

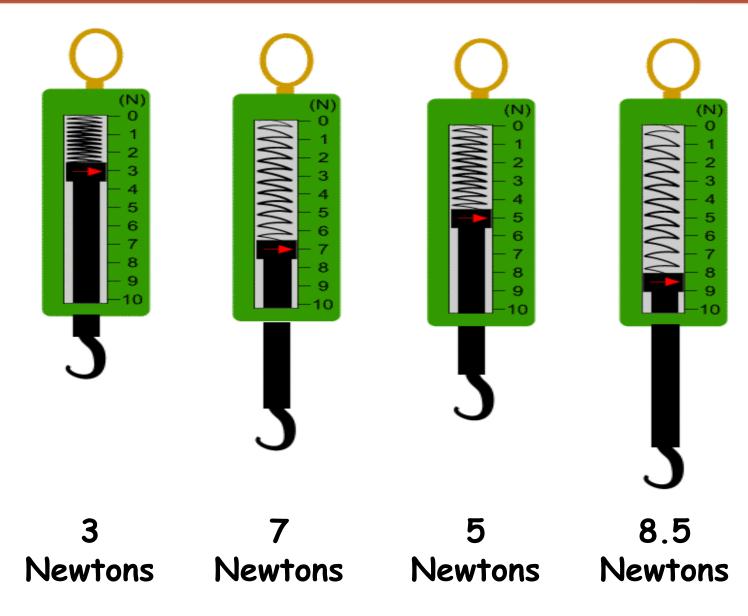
Air resistance Friction caused by a body moving through air

Water resistance Friction caused by a body moving through water

Forcemeter A piece of equipment for measuring force

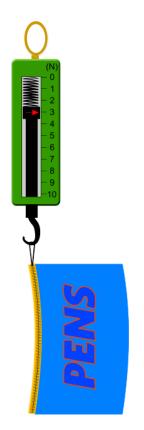
Newtons The units in which force is measured

Surface area The face of a body





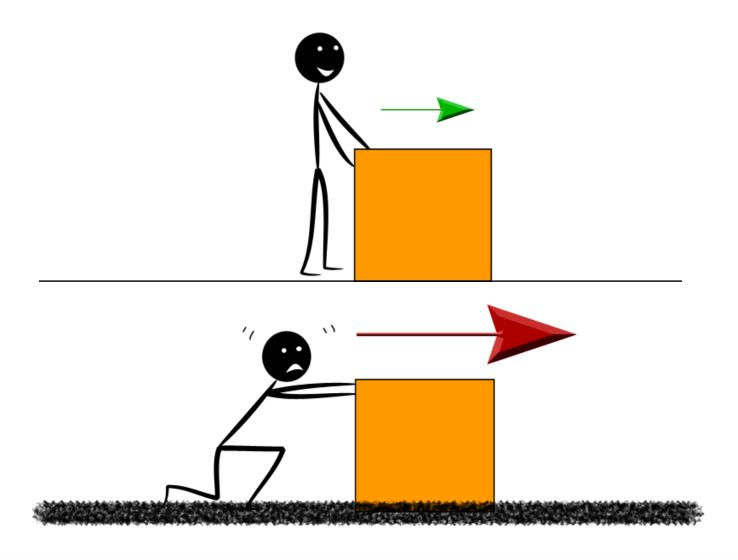
Try hanging different objects from around the classroom on the forcemeter.



Write down the readings you get!

Object	Forcemeter reading in Newtons		

This picture shows the same box being pushed on different surfaces.



Unit 4E: Forces against movement









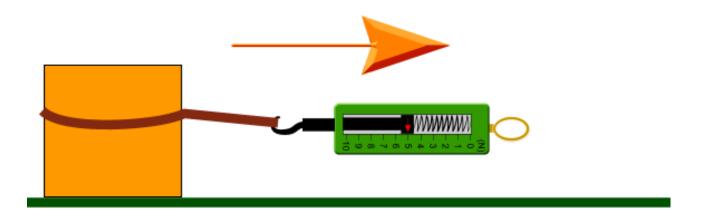








Investigation: Which surface do objects slide on most easily?



Which of these surfaces will a weighted box slide across most easily?

- A) Vinyl
- B) Wood
- C) Carpet

When you have chosen, explain why you think this surface will be the easiest to slide across



Investigation: How are you going to test this?

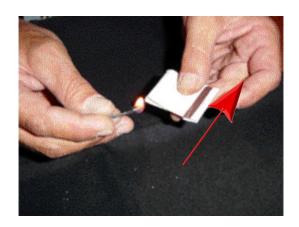
"What variable are you testing? (the thing that changes)"

"What variable will you change?"

"What variables will remain the same to make it a fair test?"

"What will you measure?"

Record the results as a bar chart, ask for help if you're unsure.



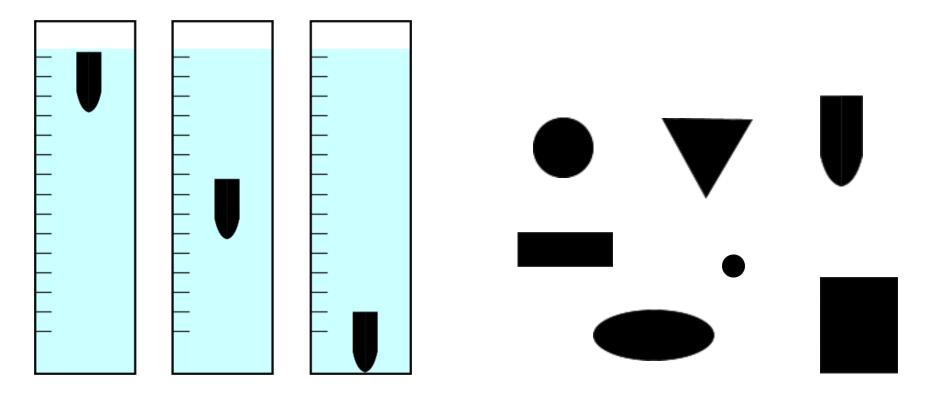






Is it best for each of the following to have high or low friction?

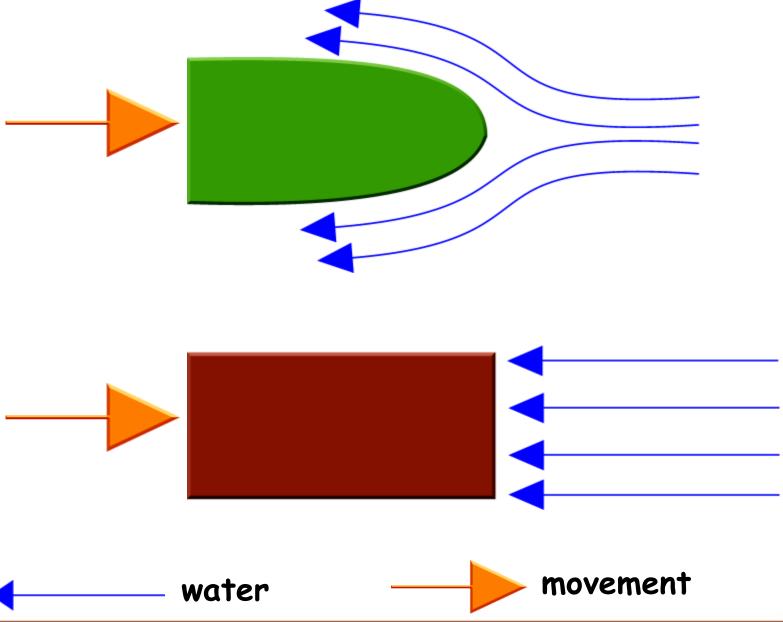
Situation	High Friction	Low friction
Tyres on a car		
Playground slide		
Goalkeeper's gloves		
Shoe laces		
A drawer		
Ice skates		
Climbing rope		



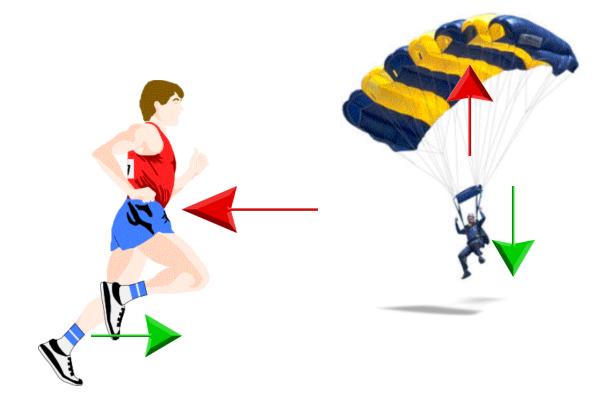
Which shape do you think will travel through the water the quickest?

Why do you think this one will be the quickest?

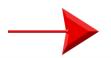
Test different shapes to see how quickly they move through the liquid.











air resistance

Unit 4E: Summary

