



Year 5 – Autumn - Forces

I should already know:

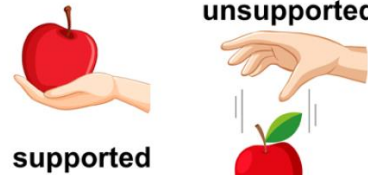
- Some forces are **contact forces** like pushes and pulls
- Some forces are **non-contact forces**, like the magnetic force
- Magnets attract only *some* objects
- Two magnets can attract or repel each other
- How objects move on different surfaces

Skills I will develop:

- How to use a newton meter to measure forces to 0.1 N
- How to write a conclusion

I will learn:

- Three more **contact forces** are friction, air resistance and water resistance. These act in the opposite direction to movement.
- The force of gravity is another **non-contact forces**. This causes unsupported objects to fall towards Earth



supported	Held up, so it doesn't fall due to the force of gravity.
unsupported	Not held up, so it does fall due to the force of gravity
force due to gravity	an attractive force acting between the Earth and an object
friction	a force acting between two surfaces in the opposite direction to movement
contact force	a force that needs the objects to be touching
non-contact force	a force that doesn't need the objects to be touching but is stronger when they are closer together
air resistance	a force that acts when objects move through air in the opposite direction to the movement
water resistance	a force that acts when objects move through air in the opposite direction to the movement
Newton meter	a device used to measure how strong forces are
attractive	describes a force that pulls objects together

Sentence 1
What is your answer to your scientific question?

I have discovered that... I conclude that... In conclusion, I have found... The findings of my enquiry suggest that... The data suggests that...

Sentence 2 Supporting Evidence

How does your data **support** your answer?

My measurements show that...
My graph shows that...
The trend in my data is...
My graph shows the relationship...

Sentence 3 Contradicting Evidence

Did you gather any evidence **not support** your conclusion?

In disagreement with my conclusion, my data also shows that...

Sentence 4 Scientific explanation

Use your science ideas and vocabulary to explain your conclusion.

This can be explained by...
The scientific explanation for this would be...

Sentence 5 Further questions

What further questions could you ask to find out more or better understand your conclusion?