



Science Topic Overview: **Forces**

Previous linked learning	I think I already know...	I would like to find out...
<p>Year 4 - I can compare how things move on different surfaces -Discuss forces when observing magnets</p> <p>Year 1 - I can describe the simple physical properties of a variety of everyday materials</p> <p>Year 2 -I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</p>		

Key Vocabulary

force, contact, surface, push, pull

Air resistance

Water resistance

Friction

Gravity

Lever

Gear

Pulley

Newtons

By the end of this unit you will be able to....

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- Explain air resistance and link it to gravity to help ask 'How can we increase the effect of air resistance?'
- Explain water resistance and explore the effect of it on 'streamlined' objects
- Explain friction that acts between moving surfaces and explore what materials cause more friction and why
- Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect
- Meet an engineer and explore the effect of forces on real life examples

