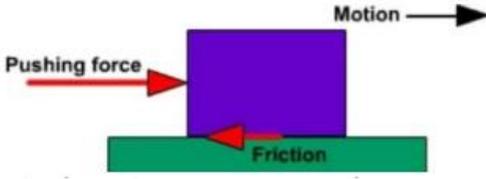
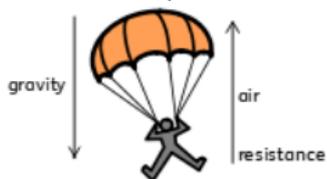
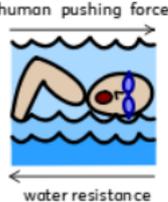


What should I already know?

- That push and pull are types of forces.
- When forces are applied to an object they can slow it down, speed it up or stop it.
- That magnets have poles, and that opposite poles attract, while similar poles repel.

What will I know by the end of the unit?

- What is gravity?
- Gravity is the force that pulls things towards the centre of the Earth.
 - This means that unsupported objects appear to fall downwards.
- Which forces can affect the speed of a moving object?
- Friction is a force. It is what slows down an object when it rubs against another surface.
- 
- Air resistance is the opposite force of gravity. It pushes up on a parachute to make the parachute fall more slowly.
- 
- Water resistance is the friction that acts on an object moving through water to slow it down.
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- What is a mechanism?
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- Mechanisms allow a small force to have a larger effect.
 - **Examples of mechanisms**
 - **Levers** let us pick up heavy objects with less effort.
 - **Pulleys** allow us to lift heavy objects using ropes so we can pull downwards instead of lifting upwards.
 - **Gears** are toothed wheels. Each wheel turns another wheel so forces can move across a surface.

Vocabulary

friction	the resistance of movement when one object rubs against another
force	the pulling or pushing effect that something has on something else
gear	a simple mechanism that causes another part to move
gravity	the force which causes things to fall to the floor
lever	a simple mechanism used to lift or pry things open
mechanism	each part that works together in a machine
motion	changing position or moving
pulley	a simple mechanism that makes lifting something easier
resistance	a force which slows down moving object or vehicle
streamlined	a shape that lets something move quickly through air or water
surface	The flat top part or outside of something
unsupported	not held up by anything

Data Handling

- Independently select the appropriate graph from a bar chart or line graph, depending on whether their data is discrete (bar chart) or continuous (line graph).
- Take average data recordings for accuracy and identify anomalies in data.

