How can forces cause a change in an object's movement?

St. Peter's CE Primary Academy



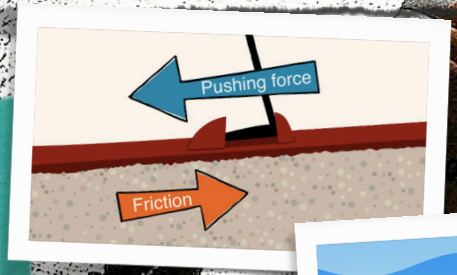
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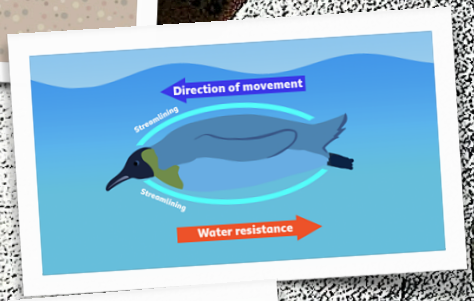
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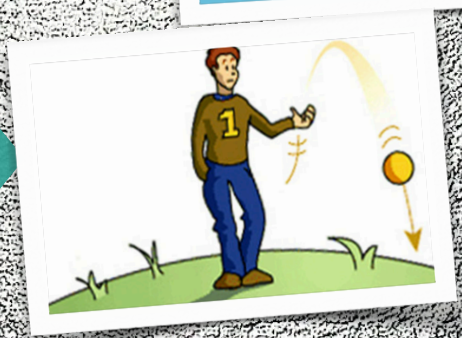




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vers, pulleys and gears







Working scientifically concepts

- Making predictions
- Observing and measuring
- Concluding and evaluating

Forces – Our Learning Journey

Year 3
- Notice and compare simple forces through friction and magnets

Year 5
- Identify and explain unbalanced forces
- Describe the orbits of the Earth and moon

Key vocabulary

air resistance	The force that resists movement when an object moves through the air.
force	A push or pull that causes things to move, change speed or change their shape
friction	The force that resists movement when two surfaces rub against each other.
fulcrum	The place where a lever pivots
gears	Wheels with teeth that slot together to increase the power of a turning force
gravity	A force which pulls things towards the centre of Earth
lever	A rigid bar that pivots around a fixed point (fulcrum) to help lift or move a load with less effort.
newton	The unit of measure used to measure force
pulley	A wheel with a rope or cable running over it, which helps lift heavy loads with less effort.
streamlined	If an object is streamlined then it is shaped to reduce resistance when moving through water or air
water resistance	The force that resists movement when an object moves through the water.

Ethics

How can our understanding of forces help us to save energy?