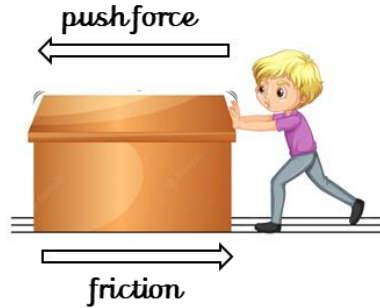


Friction

Friction is the force between two surfaces that are sliding or trying to slide across each other. Friction works in the opposite direction to which the object is moving to slow down the moving object.

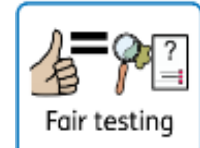
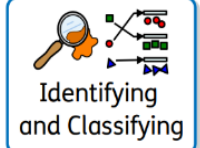
Rough surfaces create more friction than smooth surfaces.



Key Vocabulary

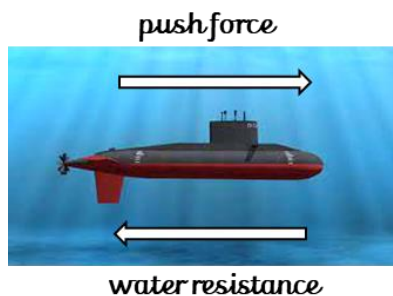
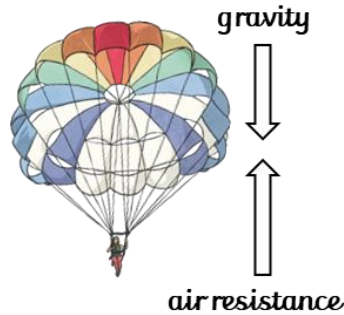
Force	A push, pull or twist.
Gravity	A force that pulls objects towards the centre of the Earth.
Friction	The force between two surfaces.
Air Resistance	A type of friction between air and moving object.
Water Resistance	A type of friction between water and moving object.
Mechanism	A system of parts that work together to make something move.

Scientific Lines of Enquiry



Air Resistance

Air resistance always works in the opposite direction to which the object is moving to slow the object down. A larger surface area will slow down quicker.



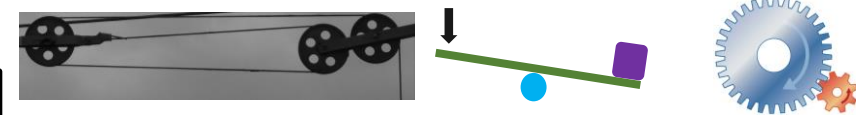
Water Resistance

Water resistance always works in the opposite direction to which the object is moving, slowing the moving object down.

Objects that are streamlined can travel more quickly through air and water.

Pulleys, Levers and Gears

Simple mechanisms can transform small forces into bigger forces. This allows heavy objects to be moved with a much smaller force.



Pulley

Lever

Gears