
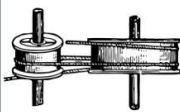



Key Vocabulary	
Key Word	Definition
Force	is an action that changes or maintains the motion of an object. A force is a push or a pull.
gravity	An invisible force that pulls objects towards each other. Earth's gravity makes things fall to the ground
Earth	Is the 3 rd planet from the sun. Earth's gravity is what keeps you on the ground.
Air resistance	Is a kind of friction that occurs between air and another object.
Water resistance	Is often called drag. It is a type of force that uses friction to slow things down that are moving through a liquid.
friction	Is a force between two surfaces that are sliding, or trying to slide, across each other.
Mechanisms	A system of structure of moving parts that perform some function
Levers, pulleys, gears	Simple machines/ mechanisms to make a task easier

Year 5/6 Science Forces and Levers

Name	Picture	How it Works	Used For
Lever		Helps to reduce the amount of force needed to move or lift an object, by increasing the distance through which the force acts.	<ul style="list-style-type: none"> • stapler • door handle • claw of hammer • tweezers
Pulley		Helps to reverse the direction of the lifting force, therefore multiplying the force your body produces on the object.	<ul style="list-style-type: none"> • elevator • wells • theatre curtains • bulldozer
Gear		The 'teeth' on the gears turn one another, and in doing so, helps to increase the power of a turning force.	<ul style="list-style-type: none"> • cars • bikes • pendulum clock • vacuums

Working Scientifically Skills



Science Enquiry



Learning Sequence

Lesson 1

Who was Isaac Newton?
What is gravity?

Lesson 2

How does gravity and friction work?

Lesson 3

What are the effects of air resistance and water resistance?

Lesson 4

How do levers work?

Lesson 5

How do pulleys/gears make a job easier? (Forest School outside)

Lesson 6

Assessment Enquiry: Many heavy materials were needed to build the Titanic, how were they lifted?