

If you roll a ball along the ground it eventually stops

because of the friction between the ball and the ground.

If you throw a ball into the air it falls to the ground because

the force of gravity pulls it down.

To make something move more quickly or more slowly you have to

apply a force to it.

All things on Earth are pulled towards

the centre of the Earth.

When two surfaces move against each other there is a force called

friction.

Our shoes slip more on ice because

the force of friction is weaker on a smooth surface.

An astronaut's weight is greater on Earth

than it is on the Moon.

It takes a big kick to move

a ball with a big mass.

Camels large feet spread their weight over a large area so that they do not

sink into the sand.

If something is not moving

there are forces acting on it still.

When something sinks, the downward pull of gravity

is bigger than the upthrust.

For an electric current to flow you need

a complete circuit.

A switch is a gap in

a circuit, that can be opened or closed.

A switch will work

wherever it is in a circuit.

Magnets can attract and

repel each other.

Magnets attract iron and

steel objects, and nickel and cobalt.

The two ends of a magnet are called

the north and south poles.

A north and a south magnetic pole will

attract each other.

A south and a south magnetic pole will

repel each other (push away from each other).

Sound is caused by

a material vibrating.

We can make a sound by

hitting, plucking, blowing or stroking something.

Quick vibrations give a

high note.

Slow vibrations give a

low note.

Sound spreads out in

all directions.

There is no sound in space because

there is no air to carry the vibrations.

Sound can travel through

solids, liquids and gases.

We hear sounds when our outer ear receives the sound waves and

passes them to our brain where we identify them.

The Sun, the stars, fire and light bulbs are all

primary sources of light.

We see an object, such as a tree, when

light is reflected off it into our eyes.

Light travels through

transparent materials, such as glass and air.

Shadows are made when light rays are

blocked by an object.

