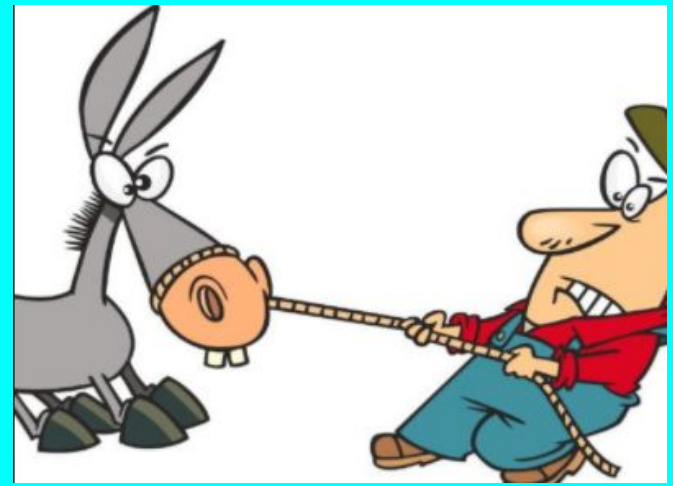


Force

# Force



A force is a push or a pull on an object.

Balanced



# Balanced

When two forces are the same strength but act in opposite directions.

Energy

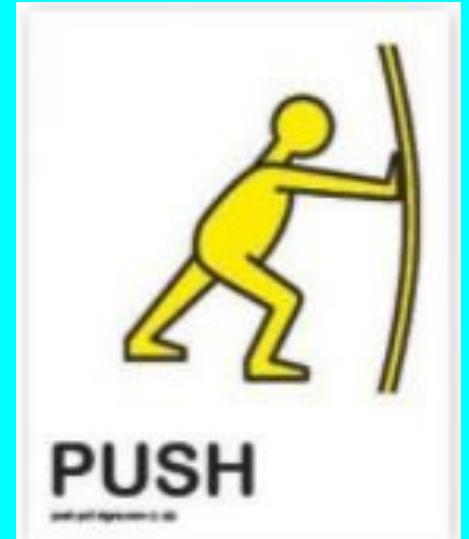
Energy  
is  
the  
ability  
to do  
work.



# Energy

How things change and move.

Push



# Push

The force that moves an object away from something.



Unbalanced



# Unbalanced

Unbalanced forces occur when one force is greater than its opposite force.

Speed up



# Speed up

Some objects are more streamlined than others, which means the air pulls on them less and they travel faster.

Pull



# Pull

The force of bringing an object closer.

Size of force



# Size of force

Size of force is measured using a Newton Meter



Slow down



# Slow down

Using the pushing or pulling force on an object to make it move more slowly.

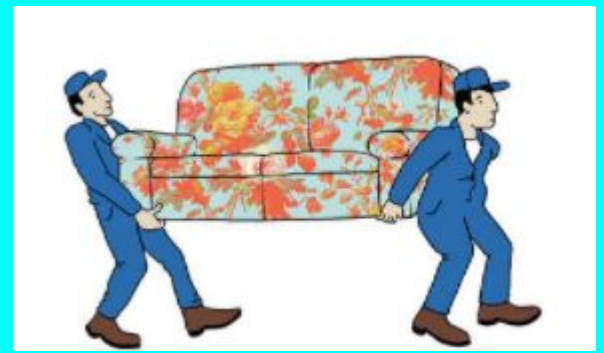
Twist



# Twist

You can twist objects when you push and pull them at the same time.

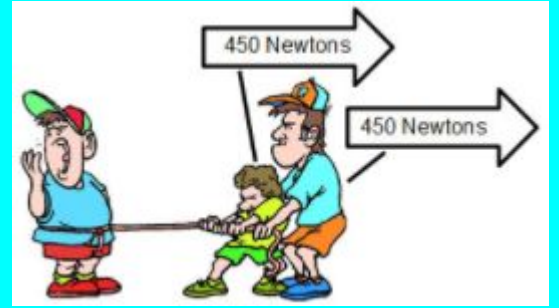
Forces acting on a  
object



# Forces acting on a object

A force is a push or pull acting upon an object as a result of its interaction with another object.

Change direction



# Change direction

Force causes changes in the speed or direction of motion. These changes are called acceleration.



Motion



# Motion

Moving from one place to another.

Friction



# Friction

When two forces slide against each other, a force called friction makes them stick very slightly together.

Direction

# Direction

The line or course on which something moves, lies, or points

Rough

# Rough



The amount of friction depends on the materials from which the two surfaces are made. The rougher the surface, the more friction is produced. For example, you would have to push a book harder to get it moving on a carpet than you would on a wooden floor.



smooth



# smooth

Smooth surfaces have less friction so they are slippier