
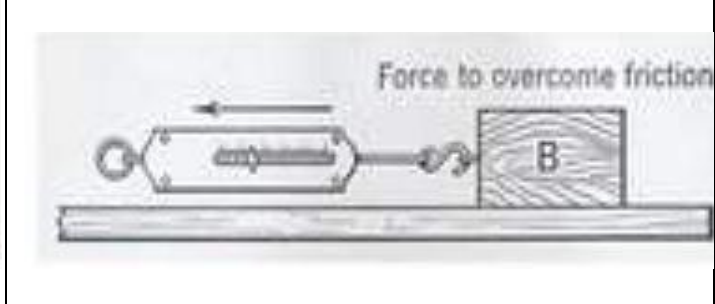


FORCE

Verbs: Gravitational force acts on all objects near the Earth.

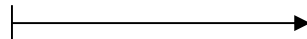
The Moon exerts a force on the Earth.

	
<p>The man pushes the box.</p>	<p>We pull the wooden block with the spring balance.</p>

Force is physical vector quantity with symbol F

unit: newton $F = 1\text{N}$

measuring instrument: a spring balance



the point of acting

direction: east = horizontally to the left

Forces can be:

- 1 CONTACT:
- a) tension – the force in stretched material (when we pull an object with a rope),
 - b) friction – the force that opposes the motion of one material sliding past another ,
 - c) thrust – the forward force from an (aircraft, car ...) engine ,
 - d) air resistance – the friction of the air ,
 - e) weight – the grav. force on an object,
 - f) upthrust – the upward force from a liquid (or gas) that makes some things float
- 2 FIELD:
- a) gravitational – exerted by all objects with mass
 - b) electric – exerted by charge
 - c) magnetic – exerted by magnets