

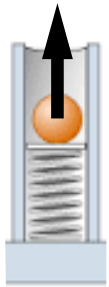
Catalog of Forces

This is a list of the most common examples of forces you are likely to encounter in problems, along with the usual symbols used to identify them. If you are unable to describe a force in a problem as one of these, be cautious, you could be inventing up a force.



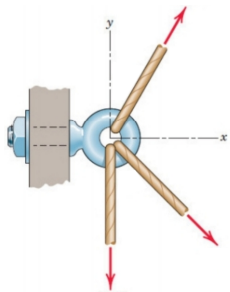
Gravitational Force
(aka gravity, aka weight)

$$\vec{F}_G, \vec{F}_g, \vec{w}, m\vec{g}$$



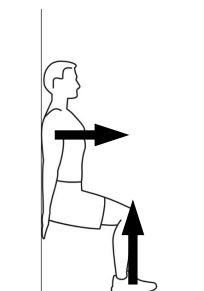
Spring Force

$$\vec{F}_{sp}$$



Tension

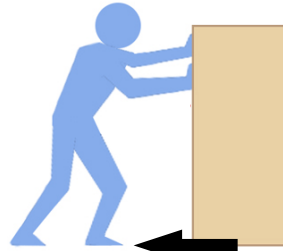
$$\vec{T}, \vec{F}_T, \vec{F}_t$$



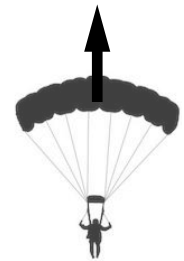
Normal Force

$$\vec{n}, \vec{F}_N, \vec{F}_n$$

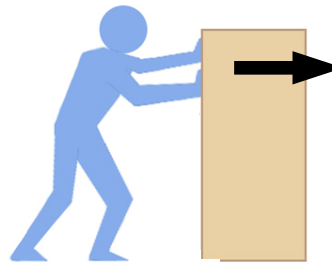
Friction and Drag (Air resistance)



$$\vec{f}, \vec{F}_f$$



$$\vec{D}, \vec{F}_D$$



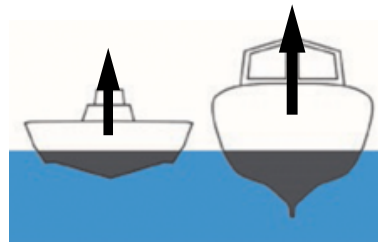
Applied Forces
(Push or Pull)

$$\vec{F}_p$$

Other Forces



Thrust



Buoyant Force