

Jan 28<sup>th</sup>

A catalog of forces

Gravity, spring, tension, friction, drag, electric and magnetic, and so on.

$F_{\text{net}}$  = vector sum of all forces on an object.

NEWTON'S FIRST LAW: Objects move with constant velocity unless the net force on the object is non-zero.

NEWTON'S SECOND LAW: An object's acceleration is

$$\vec{a} = \frac{\vec{F}_{\text{net}}}{m}$$