5.11.20 Newton's Laws: Overview

Today's Objectives: Learn each of Newton's 3 Laws 1st Law (Inertia): Objects at rest, stay at rest.

Objects at CV stay at CV unless a net force acts on it.

Unbolanced

2nd Law (Acceleration)

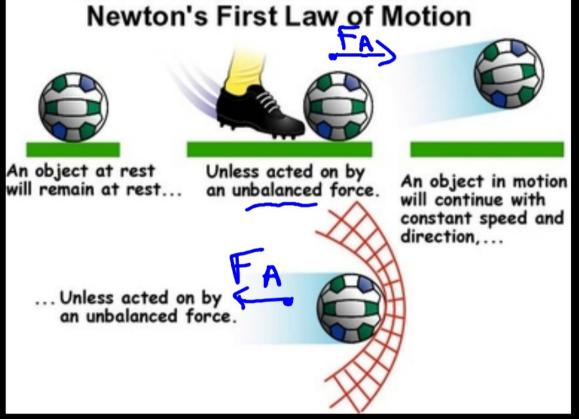
$$\alpha = \frac{\epsilon F}{m}$$

Acceleration

3rd Law (Reaction): Every action force has an equal and opposite reaction force.

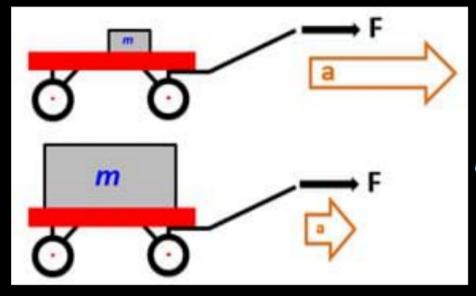
## 1st Law

Inertia (aka mass) = Resistance to Acceleration



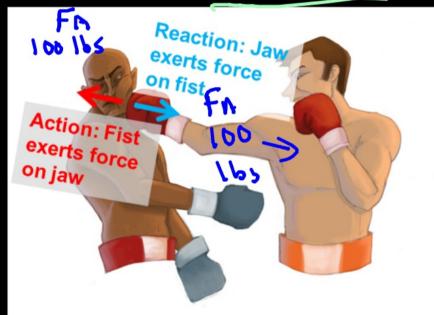
Heaviet Objects= More Resistance

## 2nd Law

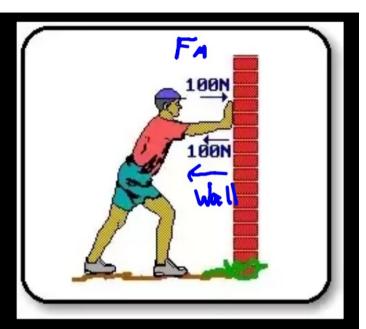




Forces have to be



the same.



No exceptions!

