



Isaac Newton  
1642-1727

### Newton's 3rd Law

When one object pushes on another,  
the other pushes back with an EQUAL force,  
but in the OPPOSITE direction.

**Forces within one connected object  
will cancel out.**

**In order to change your speed or  
direction, you must push off of  
something you are not attached to.**

**(You need an outside force.)**