

Forces and Motion

- Reinforced - to give more force (strengthen)
 - increased strength in push or pull, or multiple sources pushing or pulling an object
- Counteracted - to act against another source of force
 - friction acting against object moving in opposite direction
 - weight pulls down as ground pushes up
- Cancel out - no change in motion, sources of force are equal in exertion
 - when an object is not moving, the ground pushes up with the same force that gravity pulls down
 - when an object is moving, there will be constant speed when the force of the friction is equal to the applied force

Mass vs. Weight

- Mass - the amount of matter in an object
 - determines strength of force
- Weight - the force on an object (with mass) due to gravity
 - force of gravity constant on Earth, changes on different sized planets and celestial bodies
- Force acting on object measured in Newtons (N)
 - the greater the mass, the greater amount of force needed to move object
 - the greater the mass, the stronger the gravitational pull