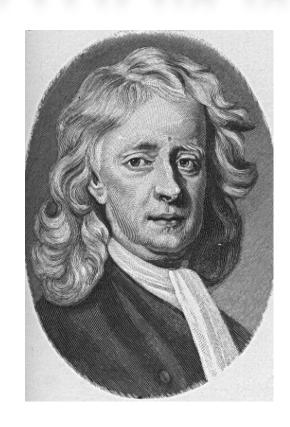
NEWTON'S 1ST LAW OF MOTION NOTES



Newton's 1st Law of Motion

 An object at rest will remain at rest and an object in motion will remain in motion until an outside force acts upon it.

 Inertia- the tendency of an object to resist change in its motion.



Force: is a push or pull.

Friction: is the force that acts to resist sliding between two touching surfaces.

- Static (starting) Friction: is the type of friction that prevents an object from moving when a force is applied.
- Sliding Friction: while static friction keeps an object at rest, sliding friction slows down an object that slides.
- Rolling Friction: the friction that occurs when rolls over a surface.

Is Friction Useful or NOT?

- Without Friction:
 - It would be hard to walk-like on ice.
 - You couldn't light a match.
 - It would be really hard to drive a vehicle
 - We are usually trying to increase it!

