

## Newton's Laws and Forces in 1 Dimension

### Introduction

Newton's 3 Laws of Motion marks the foundation for nearly all of Classical Mechanics. They describe the nature of how objects move, and are affected by external forces. To Review:

1. Newton's 1<sup>st</sup> Law, also known as the law of Inertia, states that an object (in a constant frame of reference) at rest will stay at rest, whereas an object moving at a constant velocity (in a constant frame of reference) will keep moving at that velocity, unless acted upon by an external force.
  - a. This is the reason that objects in deep space, relatively unaffected by the gravity of stars, can float off in one direction forever.
2. Newton's 2<sup>nd</sup> Law, arguably the most famous, states that when multiple forces act on an object, the net force, equal to the vector sum total, is equal to the object's mass times its net acceleration:

$$\sum_i \underline{F}_i = \underline{F}_{net} = m_{object} * \underline{a}_{net}$$

- a. NOTE: Forces are vectors, and as such they add like vectors. In the case of 1-dimensional motion, this is easy to compute, but becomes non-trivial in 2 and 3 dimensions.
- b. Example: Gravity. The Earth constantly exerts a force on all objects around it, equal to the objects mass \* the acceleration due to gravity, g:

$$\underline{F}_g = m_{object} * \underline{g}$$

On the Earth's surface, this value g is approximately equal to 9.8 m/s<sup>2</sup>.

3. Newton's 3<sup>rd</sup> Law, or the principle of action and reaction, states that any force between two objects exists in equal magnitude and opposite in direction. That is to say, if an object A exerts a force  $\underline{F}_A$  on object B, then object B will exert a force  $\underline{F}_B$  on object A. Newton's 3<sup>rd</sup> Law states that these two forces are equal:

$$\underline{F}_A = - \underline{F}_B$$

- a. Example: Normal Forces. Normal Forces are the reason that objects that collide with one another, or are in contact, don't go through one another. As an example, we stand on the ground because the force of gravity pulls us down. However, because we're not just constantly sinking into the ground, there must exist a force exerted by the ground back at us, which leads to 0 net acceleration:

$$\underline{F}_g - \underline{F}_N = 0$$

# Hunter College Physics 110 Lab Manual

**JG Myers**



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