

## Unit Physics-Chapter 4: Forces and the Laws of Motion

1. Section 4.1: Force
  - A. Definition: Force is that cause of an acceleration or that change in an object's velocity.
  - B. A force can be a push, or pull, and pressure. Force can act directly through physical contact or as a distance (or a magnetic) force.
  - C. Its measure is in **NEWTONS**.

**A newton is the force needed to accelerate a 1 kilogram mass by 1 meter per second squared**

$$1N = 1kg \times 1m/s^2$$

12. Section 4.2: NOT worth an weight or mass!
13. Weight: When you weigh is a measure of your mass on the planet earth. Your weight can change (evidence for your surroundings). Ex: When standing 1000 pounds on earth, but on the moon that weight only 16 pounds!
14. When your weight can change your mass is constant regardless of your surroundings. 1000 lbs on the planet earth weight 100 pounds on the moon! Ex: 1000 pounds on the planet earth, 1000 pounds on the moon, 1000 pounds on the planet Mars!
15. Newtons are a measure of force, not mass, and therefore for students have always force that equals to something on your body (your weight). Ex: students are made and forced!
16. Conversion Factors:

$$1 \text{ pound} = 4.448 \text{ newtons}$$

$$1 \text{ newton} = 0.225 \text{ pounds}$$

1. Two Types of Forces
  1. Contact Forces: The force that acts from the physical contact of two objects.
  2. Field Forces: The force that can act on separated objects.

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