

10th Physics-Chapter 8: Forces and the Laws of Motion

1. Section 8.1: 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 (it is 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 8.2: NOT worth an weight or mass!
13. Weight: When you weight 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 weight lbs. Your weight 100 pounds and that means the MASS should still be 1000 pounds, unless you're Jupiter or in a black hole!
15. Section 8.3: a measure of force, the unit our teachers for students have since that grade is something we "your body (your weight) but students are rarely told how!
16. Conversion Factors:

1 pound = 4.448 newtons

1 newton = 0.225 pounds

1. Two Types of Forces
 1. Contact Forces: The force that arises from the physical contact of two objects.
 2. Field Forces: The force that can exist between objects

Holt Physics Chapter 4

Thomas Brückel

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