

Holt Physics-Chapter 4: Forces and The Laws of Motion

1. Section 4-1—Force
 - A. Definition: Force is the cause of an acceleration or the change in an object's velocity
 - B. A force can be a push, a pull, and pressure: force can act directly through physical contact or at a distance like a magnetic field.
 - C. We measure force in **NEWTONS**.

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

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

- D. Newtons ARE NOT units of weight or mass!
- E. Weight: What you weigh is a measure of your mass on the planet earth. Your weight can change relative to your environment! Mr. Price weighs 200 pounds on earth, but on the moon he would weigh only 33 pounds!
- F. While your weight can change your mass is constant regardless of your environment. Although Mr. Price would weigh 33 pounds on the moon his MASS would still be 200 pounds on the moon, Jupiter or in a black hole!
- G. Newtons are a measure of force—we can use newtons to measure how much force the earth is exerting on your body (your weight) but newtons are units of force!
- H. Conversion Factors

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

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

Holt Physics Chapter 4

Yi-Tong Ma



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