

Mass and Weight

Read from Lesson 2 of the Newton's Laws chapter at The Physics Classroom:

<http://www.physicsclassroom.com/Class/newtlaws/a2l2b.cfm#mass>

MOP Connection: Newton's Laws: sublevel 6

- The standard metric unit for mass is **kilogram** and the standard metric unit for weight is **Newton**.
- An object's mass refers to **the amount of stuff present in the object** and an object's weight refers to **the force of gravitational attraction to Earth**. Fill in each blank.
 - the amount of space it takes up
 - the force of gravitational attraction to Earth
 - how dense an object is
 - the amount of stuff present in the object
- Complete the following table showing the relationship between mass and weight.

Object	Mass	Approx. Weight
Melon	1 kg	9.8 N
Apple	0.10 kg	-1.0 N
Pat Eatladee	25 kg	245 N

- Different masses are hung on a spring scale calibrated in Newtons.

The force exerted by gravity on 1 kg = **-10 N**.

The force exerted by gravity on 5 kg = **-50 N**. (more precisely, -49 N)

The force exerted by gravity on 70 kg = **-700 N**. (more precisely, 686 N)



- The value of g in the British system is 32 ft/sec^2 . The unit of force is pounds. The unit of mass is the slug. Use your weight in pounds to calculate your mass in units of slugs. **PSYW**

Answers will vary. The calculation for a 160-pound person is:

$$\text{Mass} = \text{Weight} / g = (160 \text{ lbs}) / (32 \text{ ft/s}^2) = \mathbf{5.0 \text{ slug}}$$

- You might be wondering about your metric weight. Using conversion factors, convert your weight in pounds to units of N. (Use $1 \text{ N} = 0.22 \text{ pounds}$) **PSYW**

Answers will vary. The calculation for a 160-pound person is:

$$160 \text{ lb} \cdot (1.0 \text{ N} / 0.22 \text{ lb}) = \mathbf{730 \text{ N}} \text{ (727.27 ... N)}$$

- What is the mass and weight of a 10-kg object on earth?

$$\text{Mass} = \mathbf{10 \text{ kg}}$$

$$\text{Weight} = \mathbf{98 \text{ N}}$$
 (mass multiplied by 9.8)

What is the mass and weight of a 10-kg object on the moon where the force of gravity is 1/6-th that of the Earth's?

$$\text{Mass} = \mathbf{10 \text{ kg}}$$

$$\text{Weight} = \mathbf{16 \text{ N}}$$
 (one-sixth of 98 N)

- Conclusion:** The **mass** of an object is independent of the object's location in space.

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Daniela Niemeyer



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