

The newton

The newton, (N), is the standard scientific unit of force. It is defined as the force that, when applied to a mass of 1.0 kg, produces an acceleration of 1.0 m/s².

This definition is consistent with the equation $F = ma$, since it says that:

$$1.0 \text{ N} = 1.0 \text{ kg} \times 1.0 \text{ m/s}^2, \text{ or } 1.0 \times 1.0 = 1.0$$

One newton is just about equal to the weight of one eating apple.