

Mass vs Weight

Weight -- Newtons, N

Mass -- Kilograms, kg

$$F_g = mg$$

m = mass of object, kg

g = accel. due to gravity, m/s/s

F_g = force of gravity, N

$$\mathbf{F_g = mg}$$

Earth: $\mathbf{F_g = 55 \times 9.8 \approx 550 \text{ N}}$

Moon: $\mathbf{F_g = 55 \times 1.6 \approx 88 \text{ N}}$



