## Weight

Weight is the force of gravity acting on an object. Because weight is a force, its scientific unit is the newton (N).

Newton's second law of motion tells us that force is equal to mass multiplied by acceleration, or $F=$ ma. This means that we can calculate an object's weight in newtons by multiplying its mass by the acceleration due to gravity:
weight $=m g$
For example, if your body mass is 50 kg , your weight is $50 \mathrm{x} 9.81=491 \mathrm{~N}$.

