



Flipping Physics Lecture Notes:
Weight and Mass are Not the Same

<i>Weight</i>	<i>Mass</i>
In Newtons $\left(N = \frac{kg \cdot m}{s^2} \right)$	In Kilograms
A Vector (has both magnitude and direction)	A Scalar (has magnitude only, no direction)
An Extrinsic Property	An Intrinsic Property

Weight is an extrinsic property, which means it depends on something external to itself.

$Weight = F_g = mg$ so weight depends on the acceleration due to gravity which will change depending on the objects location.