



# Your Weight on Other Planets

We hear things like “the Sun is massive!” or, “I need to lose weight,” almost every day! But, *weight* and *mass* are two very different things!

**Mass** is how much *stuff* (matter) you are made of. The more stuff you are made of, the harder you are to move!

**Weight** is how hard the force of gravity can pull on you. The more *mass* you have, the more gravity will pull, because it has more *stuff* to grab onto!

Did you that your weight would be different on other planets? Your *mass* would not change, but the amount of gravity on each planet does change. So, to find out how much you would weigh on other planets, here’s all you have to do:

## 1. Weigh yourself on Earth and write it below

## 2. Divide your Earth weight by the planet’s gravity in the table below

Complete this worksheet activity by filling in your weight on other planets below!

PLANET	EARTH WEIGHT		GRAVITY ON THIS PLANET	=	MY WEIGHT ON THIS PLANET
THE MOON	100	x	0.16	=	16 Lbs.
MERCURY	_____	x	0.38	=	_____
VENUS	_____	x	0.91	=	_____
EARTH	_____	x	1	=	_____
MARS	_____	x	0.38	=	_____
JUPITER	_____	x	2.14	=	_____
SATURN	_____	x	0.91	=	_____
URANUS	_____	x	0.86	=	_____
NEPTUNE	_____	x	1.1	=	_____

