

### Weight on other Planets

Before we can calculate your weight on other planets, we must first find your mass in kilograms. To do this, we must know your weight in Newtons (N). If you are unsure of your weight, estimate it.

1 lb = 4.45 N    weight (N) = weight in lbs x 4.45 N    weight (N) : \_\_\_\_\_

Your mass = weight in N/ 9.8m/s<sup>2</sup>    Mass (kg) = \_\_\_\_\_

**Weight = mass x gravity**

Using your mass (in kg), and the figures for g (in the table below), calculate your weight on other planets.

Planet/Star	mass (kg)	g (m/s <sup>2</sup> )	Weight (N)
Mercury		3.61	
Venus		8.83	
Mars		3.75	
Jupiter		26.0	
Saturn		11.2	
Uranus		10.5	
Neptune		13.3	
Pluto		0.61	
Sun		274.73	

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