Your Weight on Other Planets

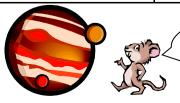
When people talk about weight, they are really talking about the pull of gravity on an object, or the force required to lift an object. So weight depends on gravity!

The stronger the pull of gravity, the more something weighs! A planet's gravity depends on how big it is: the greater the mass of the planet (eg Jupiter), the greater its gravity and therefore, the more you would weigh.

Going to somewhere like the Moon, which is less massive than Earth and therefore has less gravity, will reduce your weight.

In order to calculate what you would weigh on another planet, you will need a calculator.

PLANET	How much I would weigh on this planet
Mercury	× 0.38 =
Venus	x 0.91=
Earth	x 1=
Mars	× 0.38= my weight
Jupiter	× 2.54= my weight
Saturn	×1.08= my weight
Uranus	x 0.91=
Neptune	× 1.19= my weight



That's settled then — I'm moving to Jupiter!



PLANET	Gravity Relative to Earth (Earth = 1)
Mercury	0.38
Venus	0.91
Mars	0.38
Jupiter	2.54
Saturn	1.08
Uranus	0.91
Neptune	1.19



On which planet would you feel the lightest?

How many planets would make you feel heavier that when you are on Earth?

Which planet has the most similar gravity to that of Earth?

■ SCHOLASTIC