**Mass and Weight**

*Mass:*

* The amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in an object
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ based on where you are in the solar system or universe
* Given in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Weight:*

* the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on an object due to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Depends/\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ based on what the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is
* Given in units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = (mass) x (acceleration of gravity)

*Weight vs Mass:*





*Mass vs Weight Relationship:*

* Mass and Weight are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on Earth
* For every \_\_\_\_\_\_\_\_\_\_\_of mass, there is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of gravitational force (ON EARTH) pulling down on the object
* The equation for calculating the weight of an object on Earth is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* So, a 100kg human would have a weight of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* W=100kg\*9.8N/kg

Mass and Weight Examples:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Earth** | **Moon** | **Jupiter** |
| Mass | 100kg | 100kg | 100kg |
| Gravitational force |  |  |  |
| Weight |  |  |  |

