

Gravitational Force- Enriched notes

Def : _____

- The gravitational force on earth is 9.8 N/kg. This means that bodies accelerate 9.8 m/s^2 regardless of mass.
- The force becomes weaker as you move away from the center of the earth.

Mass vs Weight

Mass	Weight
Does not vary wherever you are and measured in kg	Varies depending on the planet or area you are on and measured in N (Neutons)

- Moon's GF = 1.67 N/kg (6x less than earth)
- Sun's GF = 273.65 N/kg (28x more than earth)

Formula to calculate weight in N

$$W = F_g \times m_g$$

W=

F_g =

m_g =

ex: 90 kg to N