

1 | **Escape Velocity and Gravitational Potential Energy**

1.1 | **Newton's Universal Gravitation Law**

$$\vec{F}_g = -\frac{GM_1M_2}{r^2}\hat{r} \quad (1)$$

where, \vec{F}_g is the force of gravity on M_2 ; M_1 and M_2 are two point masses; G the universal gravitation constant; \vec{r}