

Gravitation

Formulas

$G = 6.67 \cdot 10^{-11} \frac{\text{m}^3}{\text{kg} \cdot \text{s}^2}$	Gravitational constant
$F_g = G \frac{m_1 m_2}{d^2}$	Force of gravity between 2 objects
$g = \frac{Gm}{d^2}$	Gravitational field (acceleration due to gravity) Set $F = ma$ to the formula for F_g
$u = -G \frac{m_1 m_2}{r}$	$u = mgh$ only valid near Earth's surface This is valid for objects high above Earth's surface
$v = \sqrt{\frac{Gm_2}{r}}$	Orbital velocity
$v_{esc} = \sqrt{\frac{2GM}{r}}$	Velocity required to escape Earth's surface

Orbits

Kepler's 3 Laws of Planetary Motion

1. All planets move in elliptical orbits
 - a. Ellipses have 2 foci
 - i. The sun is at 1 focus and nothing is at the other
 - b. Major axis
 - i. Longer axis of the ellipse
 - ii. Semi-major axis: half of the major axis
 - c. Minor Axis
 - i. Smaller axis of the ellipse

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