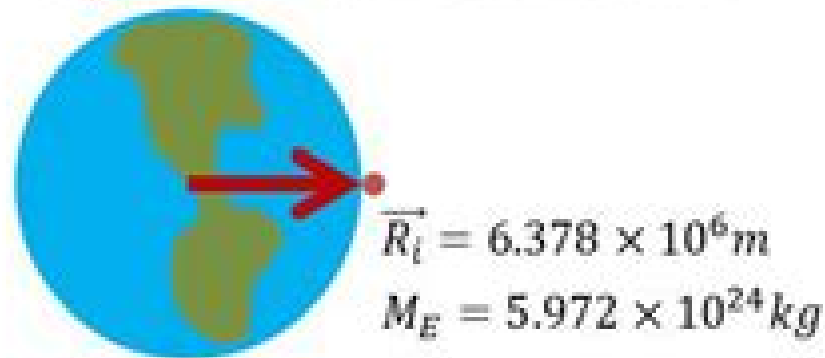


Example 2 – Escape Velocity

Let's use the concept of gravitational potential energy and work out another classic problem: What initial velocity is required in order for the object to leave the Earth's orbit.



Using conservation of energy we know that:

$$K_i + U_i = K_f + U_f$$

$$K_i + U_i = U_f$$

We also know that the potential energy due to gravity takes the form:

$$U_{gravity} = -\frac{Gm_1M_2}{R}$$

Substituting everything in:

$$\frac{1}{2}m_1v_i^2 - \frac{Gm_1M_E}{R_i} = -\frac{Gm_1M_E}{R_f}$$

$R_f = \infty$ when the object has escaped the Earth's gravity.

$$\frac{1}{2}m_1v_i^2 = -\frac{Gm_1M_E}{\infty} + \frac{Gm_1M_E}{R_i}$$

Escapevelocitytest Com Sample Paper

J Ma



Escapevelocitytest Com Sample Paper:

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