

HOME

ASSIGNMENT

b) A body of mass m is moved from ground to a height h . If force of gravity on mass of 1 kg is g newtons.

a) Find the force needed to lift the body.

A- when a body of mass m at h on ground is raised above ground through height h at h , force is applied.
Force applied = weight of body

$$\text{Force on mass } m = F = mg$$

' g ' is the acceleration due to gravity on a mass of 1 kg

b) Find the work done in lifting the body.

A- work done = ~~force~~ force \times distance moved

c) Find the PE stored in the body.

$$\text{PE} = mgh$$