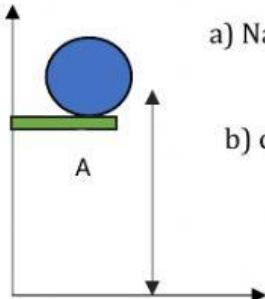


Unit - 3.2 PE and Conservation

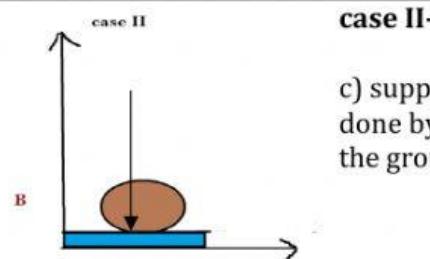
Topic: conservative forces

Activity 1: read the instructions carefully and answer the questions.

case 1: - consider a ball of mass 1kg, placed at a height of 10m.

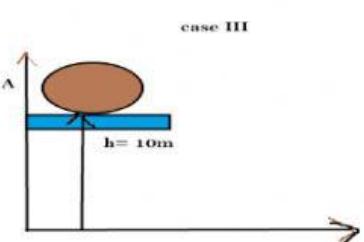


- Name the energy possessed by the mass when it is at height of 10m.
- calculate the energy of the ball, when it is at a height of 10m?.



case II-

- suppose the mass is dropped from the height. calculate the work done by the gravitational force on the mass, when the mass reaches the ground?



Case III-

- if the mass is kept back in the same height again, calculate the work done by the gravitational force on the mass, when the mass at a height of 10m?

e) What is total work done on the ball, by the gravitational force? hint: $W_{total} = W_{A \rightarrow B} + W_{B \rightarrow A}$

d) What you can say about the total mechanical energy, is it conserved or not?

Yes/No