

G481

Work, energy and power

Chapter 7



Starter

How many different types of energy can you name?

What is energy? Write a definition.



KE and PE

A body which is capable of doing work is said to possess energy. Energy is the ability of an object to do work.

There are only really two types of energy, potential and kinetic.

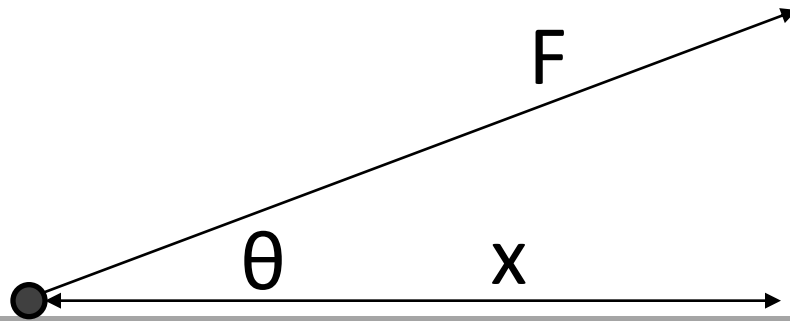


Work Done

$$W = Fx \cos\theta$$



Work Done



Kinetic Energy

Energy which a body possesses solely because it is moving.

Equal to the amount of work it can do in coming to rest.



Potential Energy

Energy which a body possesses due to its position or the arrangement of its components is called potential energy.



Objectives

State the equation for work done.

Define the Joule.

Explain whether work is done in different situations.

Calculate work done.

