

## Work, Power and Energy – Summary Notes

### Work

- Work is said to be done when a force produces a displacement of a body.
- The amount of work done by a force is equal to the product of the force and the displacement of the point of application of the force in the direction of force.  
 $\text{Work} = \text{Force} \times \text{Displacement of point of application in the direction of force or } W = F \times S$
- If there is no motion produced in the body even if a force acts on it, the work done is said to be zero, i.e., no work is done.
- If a force  $F$  is acting on a body and it displaces the body such that the displacement is at an angle  $\theta$  to the direction of force, then:  
 $\text{Work done} = \text{Force} \times \text{Component of displacement in the direction of force}$   
or  $W = F \times S \cos \theta$ 
  - If the displacement is in the direction of force, i.e.,  $\theta = 0^\circ$ , then  $\cos 0^\circ = 1$ .  
 $\therefore W = F \times S$   
In this case, the work done is maximum and positive.
  - If the displacement is normal to the direction of force, i.e.,  $\theta = 90^\circ$ , then  $\cos 90^\circ = 0$ .  
 $\therefore W = F \times S \cos 90^\circ = 0$   
In this case, the work done is zero.
  - If the displacement is opposite to the direction of force, i.e.,  $\theta = 180^\circ$ , then  $\cos 180^\circ = -1$ .  
 $\therefore W = F \times S \cos 180^\circ = -F \times S$   
In this case, the work done is negative. This is usually the case when force opposes the motion or tries to stop a moving body.
- Work done by the force of gravity,  $W = mgh$ , where  $m$  = mass of the body,  $g$  = acceleration due to gravity, and  $h$  = height of the body from the earth's surface.
- The work done by the force of gravity is the same whether a person comes down from a certain height using a staircase or he comes down from the same height using a lift.
- Since both force and displacement are vector quantities, therefore, work is scalar quantity. In vector form, it is written as:  
 $W = \vec{F} \cdot \vec{S}$  [ $\because$  The dot product of two vectors is a scalar]
- The SI unit of work is joule abbreviated as J. 1 joule of work is said to be done when a force of 1 newton displaces a body through 1 metre in its own direction.
- The MKS unit of work is  $\text{kg m}^2 \text{s}^{-2}$ .
- The CGS unit of work is erg. 1 erg of work is said to be done when a force of 1 dyne displaces a body through 1 cm in its own direction.

### POWER

- Power is the rate of doing work. It is measured as the amount of work done in one second.  

$$\text{Power, } P = \frac{\text{Work done}}{\text{Time taken}}$$
or 
$$P = \frac{W}{t} = \frac{F \cdot S}{t}$$

# Grade 10 Physics Revision

**Karin Nielsen-Saines**



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