

## Chapter 5 Work, energy, and power

### 5.1 Energy conservation

Candidates should be able to:

- 1 understand the concept of work, and recall and use *work done = force × displacement* in the direction of the force
- 2 recall and apply the principle of conservation of energy
- 3 recall and understand that the efficiency of a system is the ratio of useful energy output from the system to the total energy input
- 4 use the concept of efficiency to solve problems
- 5 define power as *work done per unit time*
- 6 solve problems using  $P = W/t$
- 7 derive  $P = Fv$  and use it to solve problems

- In physics, **work (W)** is the **energy** transferred to or from an object through the application of **force (F)** along a **displacement (d)**

$$W = F \times d$$

- The SI units for work is in **Joules**
- The **principle of conservation of energy** states that **energy is neither created nor destroyed. But may transform from one type to another.**
- E.g. work can be transformed to heat (friction!), electric to light.
- Not all energy transferred is useful. E.g. when transferring electric to light, some energy is wasted in the form of heat!
- **Efficiency** is the **ratio of useful energy output** from the system to the **total energy input**

$$\eta = \frac{\text{Useful Output}}{\text{Total Input}}$$

- Power is the amount of energy (E), transferred per unit time

$$P = \frac{E}{t}$$

- The SI units for work is in **Watt** or Joules/ second.
- Moving power is defined by the equation

$$P = F \times v$$

- This equation is used when a force is moving a body at a constant velocity
- Below is how you derive the equation

$$P = \frac{E}{t}$$

# Chapter 5 Work And Energy Test

**Tobias Bleicker**



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