

Title: Work, Power and Energy

Class: 11

Subject: Physics

1. Work:

Work is said to be done when a force is applied and there is a displacement.

2. Power:

Rate of doing work. $\text{Power} = \text{Work} / \text{Time}$. Unit: Watt.

3. Energy:

Capacity to do work. Types: Kinetic and Potential Energy.

4. Law of Conservation of Energy:

Energy can neither be created nor destroyed, only converted from one form to another.

5. Practice Questions:

Q1. Define kinetic energy and give its formula.

Q2. A body does 100 J work in 5 s. Find its power.