

PHYSICS STUDY GUIDE
CHAPTER 10: WORK-ENERGY

TOPICS:

- Work
- Power
- Kinetic Energy
- Gravitational Potential Energy
- Elastic Potential Energy
- Conservation of Mechanical energy

DEFINITIONS

- **WORK:** Potential to do something (A transfer of energy into or out of the system).
- **POWER:** rate at which work is done
- **KINETIC ENERGY:** Ability to do work as a result of the velocity of the system.
- **GRAVITATIONAL POTENTIAL ENERGY:** Ability to do work as result of the height between two objects (Earth and an object).
- **ELASTIC POTENTIAL ENERGY:** Ability to do work as a result of the elongation of an elastic material

WHAT YOU MUST KNOW

- Work: Direction of the force (or component of the force) must be parallel to the direction of the displacement.
- Kinetic energy: it is associated with the velocity of the object.
- Gravitational Potential Energy: it is associated with the height of the object with respect to Earth.
- Elastic Potential Energy: it is associated with the elongation of the elastic material.

PHYSICAL QUANTITIES

SYMBOL	NAME	UNITS
W	Work	Joules (J)
F	Force	Newton (N)
Δd	Displacement	Meters (m)
P	Power	Watt (W)
Δt	Clock Reading	Seconds (s)
KE	Kinetic Energy	Joules (J)
m	Mass	Kilograms (kg)
v	Velocity	Meters per second (m/s)
U_G	Gravitational Potential Energy	Joules (J)
g	Gravitational Constant	Meters per second squared (m/s ²)
dy	Height	Meters (m)
U_S	Elastic Potential Energy	Joules (J)
k	Spring constant	Newton per meter (N/m)
ΔL	Elongation	Meters (m)

MATHEMATICAL MODELS

- See last page

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