

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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