

Study Guide: Work & Energy

I. Work

- **Definition:** Work is done when a force causes an object to move a certain distance.
 - Work is only done if the force and the distance moved are in the same direction.
- **Formula:** Work (W) = Force (F) x distance (d)
- **Units:** joules (J)
- **Examples:**
 - Lifting a book off the floor
 - Pushing a box across the room
 - Pulling a wagon up a hill

II. Energy

- **Definition:** Energy is the ability to do work.
- **Units:** joules (J)
- **Forms of Energy:**
 - **Mechanical Energy:** The energy associated with the motion and position of an object. It has two forms:
 - **Kinetic Energy (KE):** Energy of motion.
 - Formula: $KE = 1/2 \times \text{mass (m)} \times \text{velocity}^2 (v^2)$
 - **Potential Energy (PE):** Stored energy.
 - **Gravitational Potential Energy (GPE):** Energy stored due to an object's height above the ground.
 - Formula: $GPE = \text{mass (m)} \times \text{gravity (g)} \times \text{height (h)}$
 - **Elastic Potential Energy:** Energy stored in a stretched or compressed object, such as a spring or rubber band.
 - **Other Forms of Energy:**
 - **Thermal Energy (Heat):** The total energy of the motion of the particles in a substance.
 - **Chemical Energy:** Energy stored in the bonds of molecules.
 - **Electrical Energy:** Energy associated with the flow of electric charge.
 - **Nuclear Energy:** Energy stored in the nucleus of an atom.

Work And Energy Study Guide

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