

Unit 4: Newtonian Mechanics – Energy

LAB: Work-Energy Theorem

Objective: Discover the relationship between work and kinetic energy change for a single object system

Equipment:

- PASCO equipment: motion sensor, force sensor, dynamics cart (PASCar), track, photogates, brackets, etc.
- Spring, hook mass, pulley, string, etc.

Safety: Take care that the cars stay on the tracks. Take care that equipment does not collide with motion sensors.

Procedure:

- Requirements:
 - The force that does the work must be a variable force.
 - You must use graphical methods to find work.