

POGIL: Work, Power, and Kinetic Energy

Purpose

To become familiar with work, power, and kinetic energy and the relationship between each of them.

Part 1: Work and Power

Let's define two quantities, *work* and *power*, that will be useful for explaining the motion of objects. We will define work done by a force as:

work done by a force = amount of force along direction of motion $\times$ distance moved.

Using algebraic symbols, we will write this equation as:

$$W = Fd.$$

Note the following regarding the sign of the work done:

- if the force is along the direction of motion, the work done by the force is *positive*
- if the force is opposite the direction of motion, the work done by the force is *negative*
- if the force is perpendicular to the direction of motion, the force does *zero* work.

If the force is in Newtons and the distance is in meters, then the unit of work is *Joules* (abbreviated J).

Power is the rate at which work is done. We can define the average power as:

average power = work/time required to do the work,

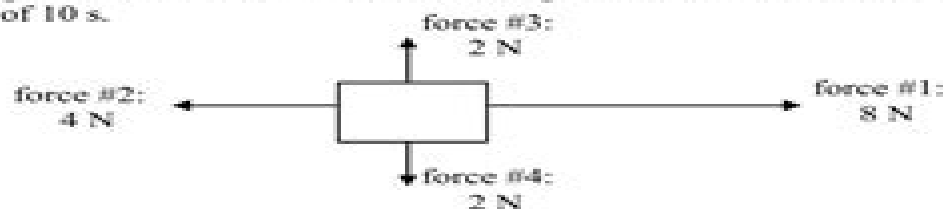
or, using algebraic symbols:

$$P = \frac{W}{t}.$$

If work is measured in Joules and the time is measured in seconds, then we can use the unit *Watts* (abbreviated W) for power.

Critical Thinking Questions, part 1

1. In the diagram below, several forces are acting on the box as it moves 5 m to the right in a time of 10 s.



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