

## Unit 2 Physics

### Standards Covered

HS-PS3-2. Develop and use models to illustrate that energy at the macroscopic scale can be accounted for as a combination of energy associated with the motions of particles (objects) and energy associated with the relative position of particles (objects).

HS-PS3-3. Design, build, and refine a device that works within given constraints to convert one form of energy into another form of energy.

### Section 1: Energy

§ Energy is the ability to do work, and work is considered to be the ability to make something move or change. Simply put, energy is the ability to cause change. There are two main types of energy: The first is kinetic energy: energy in motion. It can transfer to other objects. Types of kinetic energy include light, sound, moving mechanical, radiant, thermal, and wind. Potential energy is the second main type of energy. It is stored energy that is often based on an object's position. This type of energy includes elastic, chemical, gravitational, stored mechanical, and nuclear.

§ We measure energy using the unit joules (J) which is equal to a newton (N) times a meter (m). A newton is equal to a kilogram (kg) times a meter per second squared ( $m/s^2$ ). We can calculate kinetic energy using the formula  $KE = \frac{1}{2}mv^2$  where m is the mass and v is the velocity. Mass is measured in kilograms, and velocity is measured in meters per second. When we square the velocity, this gives us all the units needed to make a joule. To calculate potential energy, we use  $PE = mgh$  or  $PE = Fh$ . In the first formula for potential energy, g is the constant acceleration due to gravity. On earth this is always  $9.8 m/s^2$ . Mass times acceleration is equal to force which is measured in newtons, so the second formula substitutes the m and g for F. In both formulas the h represents the height measured in meters (m).

§ Let's take a closer look at these formulas by working through some sample problems. If an object in motion has a mass of 5 kg, and a velocity of 10 m/s, we would plug the numbers into the kinetic energy formula like so:

$$KE = \frac{1}{2}mv^2 = \frac{1}{2} 5kg \times (10 m/s)^2$$

The first thing we will need to do is square our velocity. In this example that would mean we multiply 10 m/s by 10 m/s giving us  $100 m^2/s^2$ . We then multiply this by 5 kg to get 500 J. The last thing is to multiply by  $\frac{1}{2}$  making our final answer 250 J. This means that a moving object with a mass of 5kg and a velocity of 10 m/s has 250 J of kinetic energy.

# 2013 Physics Unit 2

**Baorong Hou**



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