Physics 11

**Section 7.3: Kinetic Energy**

Kinetic energy is energy associated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Kinetic energy is the amount of work that needs to be done to get an object \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. We can figure out the formula for kinetic energy using the formula for work and our super kinematics skills!

**Example:** The kinetic energy of a 2.1 kg rotten tomato is 1000 J.

a) What’s its speed?

 b) How much work has to be done on it to bring it up to this speed?