



Kinetic Energy:

- _____ value
- Measured in _____

Where:

m =

v =

Ex. A 60.0 kg student is running at a uniform speed of 5.70 m/s. What is the kinetic energy of the student?

Ex. The kinetic energy of a 2.1 kg rotten tomato is 1.00×10^3 J. How fast is it moving?

The Work Energy Theorem

Recall: Work is defined as _____

If a net force acts on an object it must be _____

This must be proportional its _____

Therefore

Ex. A sprinter exerts a net force of 260 N over a distance of 35 m. What is his change in kinetic energy?