

Name: _____

Date: _____

Investigating Kinetic Energy and Velocity

Open the *Force and Motion* Simulation: Open Explore mode to investigate the relationship between kinetic energy and velocity.

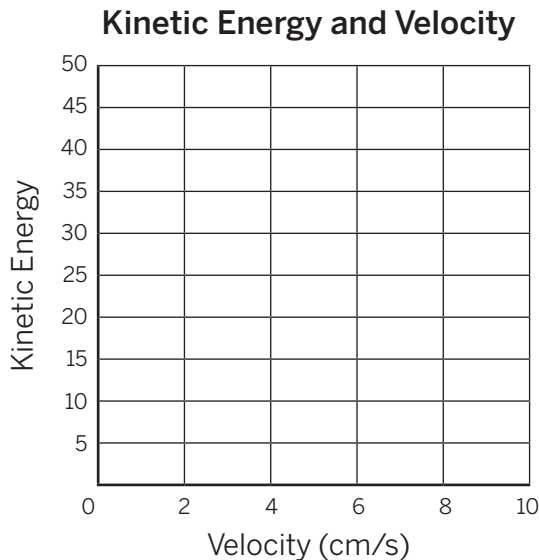
Steps

1. In BUILD, press on the object and move the top slider to give the object a horizontal velocity of 0 cm/s.
2. Press RUN, then press ANALYZE.
3. Record the kinetic energy of the object in the data table to the right.
4. Repeat steps 1-3 with the other velocities in the data table.
5. Using your data in the data table, create a graph to show how kinetic energy depends on velocity.

Data Table

Velocity (cm/s)	Kinetic Energy
0	
2	
4	
6	
8	
10	

Graph



1. Describe the patterns in your graph. What is the relationship between velocity and kinetic energy?
