



# One Dimensional Motion Activity

### Introduction:

Students, today you will be determining average velocity of multiple objects, beginning with set conditions. Make sure you include all work and any necessary units.

### Step 1:

The object will be placed at the top of the ramp. The average speed will be determined by studying the distance traveled and the amount of time that the object takes to travel the distance. The frame of reference will be the metal ramp that is provided at the angle given. Complete three trials for each object then calculate the average of those values.

Object	Time (s)	Distance (m)	Speed	Average Speed

### Step 2:

Next, determine the direction of each traveling object (hint: each direction is the same). Then for each object provide the average velocity (hint: includes speed and direction in its description).

Object	Average Velocity