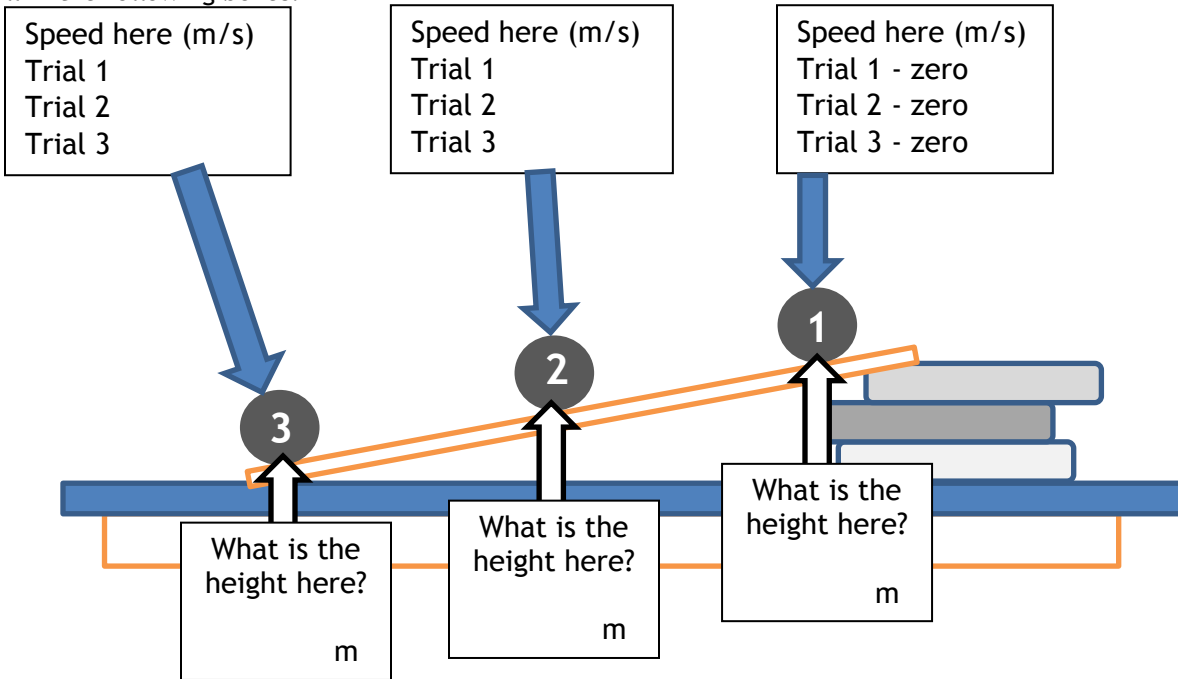


In this lab you will use a ramp and calculations to verify the conservation of energy.
You will take a ball and roll it down your ramp from the same starting position each time.

Data: Fill in the following boxes.



Now, using our data, we are going to try to verify the conservation of energy.

Calculate the Potential Energy at all three Positions

First Location	Second Location	Third Location
PE =	PE =	PE =

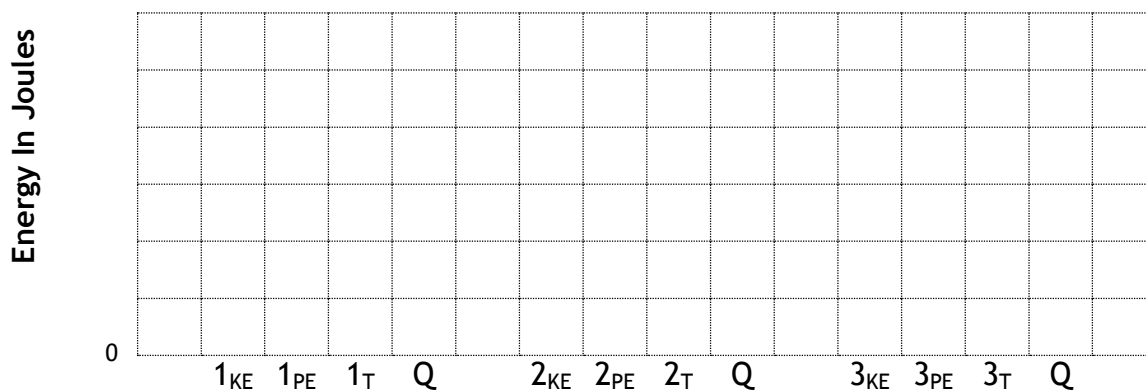
Calculate the Kinetic Energy at all three positions

First Location	Second Location	Third Location
KE =	KE =	KE =

Now, fill in the following table with what you calculated above.

	Kinetic energy	Potential Energy	Mechanical Energy (KE+PE)
Position 1			
Position 2			
Position 3			

Create a bar graph of each energy type below.



HEY, What's this "Q"?!

In position 1, Q is zero. In all of the other positions, the total energy **MUST** be the same as for position 1. Q represents heat energy lost to friction. You should now include this value with your graph.