

Raw Data Sheet

Student Name: _____

Team members:

1.- _____ 2.- _____

3.- _____ 4.- _____

Instructor: _____

Muzzle Velocity

Follow the instructions in the **Muzzle Velocity** section of the lab manual, starting on page 18. Record your measurements in the following table, where d is the distance between main and accessory gate.

Medium Range	time (s)	d (m)	speed (ms^{-1})
1			
2			
3			
Average speed =			
Long Range			
1			
2			
3			
Average speed =			

Launch Experiments

Follow the instructions in the manual, record your measurements, and sketch your setup. Note that your instructor will give you the angles for these experiments.

First Launch	
range	
θ (deg)	
y_0 (cm)	
y_f (cm)	
$x - x_0$ (cm)	

Second Launch	
range	
θ (deg)	
y_0 (cm)	
y_f (cm)	
$x - x_0$ (cm)	

Angle of Maximum Range

Follow the instructions in your manual starting on page 19.

Medium Range; $y_0 = y_f$	
θ (degrees)	$x - x_0$ (cm)
40	
45	
50	