

## 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 ( $\text{ms}^{-1}$ )
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	
$\theta$ (deg)	
$y_0$ (cm)	
$y_f$ (cm)	
$x - x_0$ (cm)	

Second Launch	
range	
$\theta$ (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; $y_0 = y_f$	
$\theta$ (degrees)	$x - x_0$ (cm)
40	
45	
50	