

Raw Data Sheet

Dry run

Student Name: Michael Liebel

Team members:

1.- Michael Liebel

2.- _____

3.- _____

4.- _____

Instructor: Michael Liebel

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	0.0197	0.095	482
2	0.0196	0.100	510
3	0.0197	0.100	508
Average speed =			5.00 m/s
Long Range			
1	0.0145	0.100	6.90
2	0.0145	0.095	6.552
3	0.0147	0.100	6.80
Average speed =			6.75 m/s

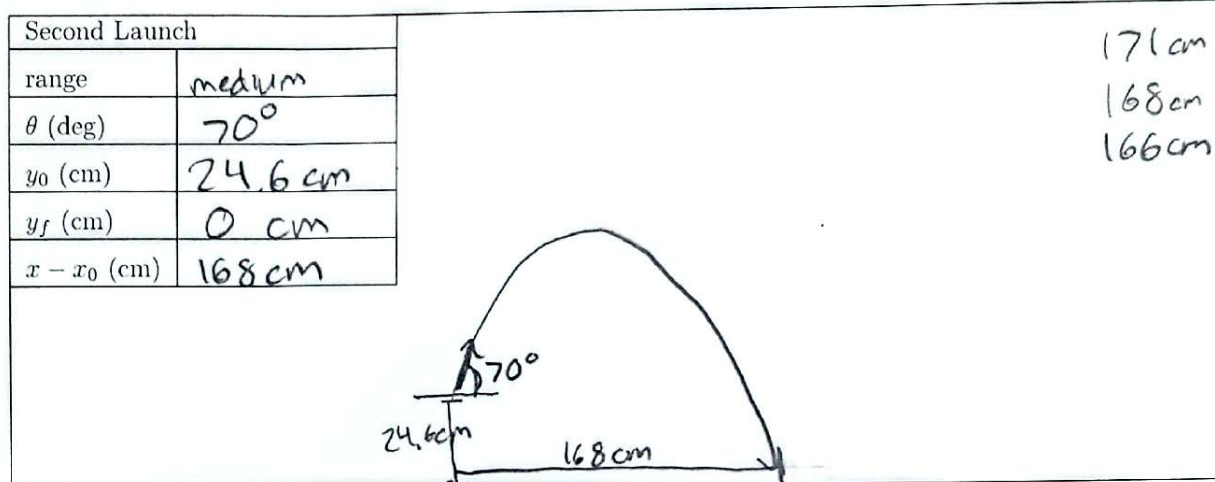
Launch Experiments

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	long
θ (deg)	15°
y_0 (cm)	24.3 cm
y_f (cm)	0 cm
$x - x_0$ (cm)	298 cm

294 cm
 307 cm
 300 cm

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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	245 cm
45	251 cm
50	247 cm

