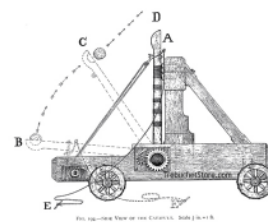


Name: _____ Date: _____
Physics

Worksheet

Trebuchet / Catapult



Directions: Determine the average velocity, acceleration and force from the data below.

Isabel built a catapult for her physics class and needs to determine the maximum height and the initial velocity. So, she times 10 missile (tennis ball) launches and obtains the data in the table below.

Trial	Mass (kg)	Distance (m)	Time (s)
1	.0585	29.870	3.05
2	.0585	28.346	2.50
3	.0585	28.651	2.54
4	.0585	30.175	3.37
5	.0585	28.041	2.37
6	.0585	28.956	2.75
7	.0585	28.956	2.75
8	.0585	27.736	2.17
9	.0585	29.565	2.48
10	.0585	28.956	2.40
AVE			

Calculations

_____ velocity components

_____ impact velocity

_____ maximum height

**"Our greatest glory is not in never falling, but in getting up every time we do."
- Confucius**