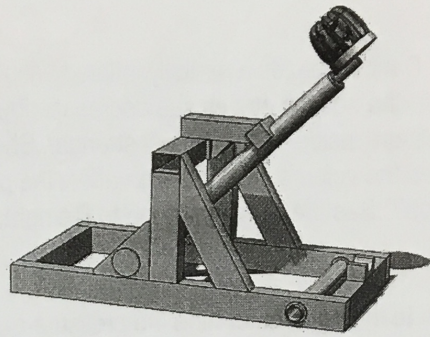


the center of all of my data points

2.

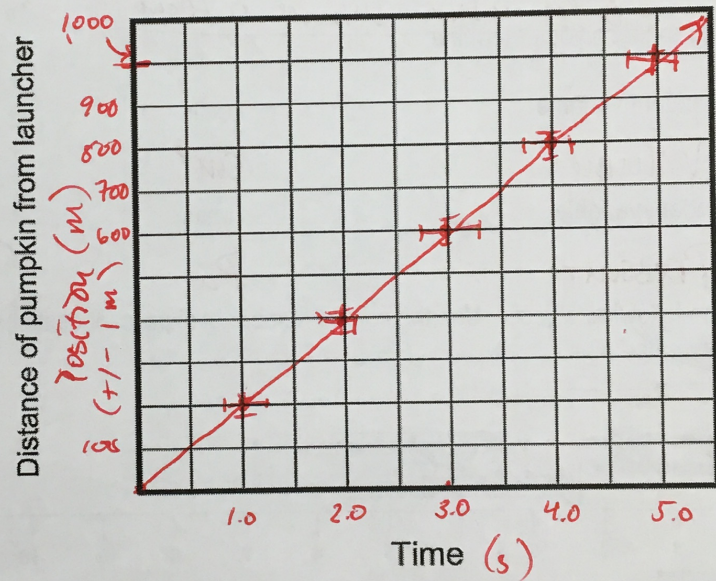
time (s +/- 0.3)	position (m +/- 1)
0.0	0
1.0	200
2.0	400
3.0	600
4.0	800
5.0	1000



According to MythBusters, this is accurate data for the position of a pumpkin compared to time after launch from a pumpkin' chunking device. Using this data set WRITE a mini-lab write up.

How does pumpkin position relate to time since launch

- A) Make an IDEAL graph.
- B) How does pumpkin position relate to time since launch?
 - a. claim
 - b. evidence
 - c. mathematical model
 - d. prediction for position after 7 seconds of flight
 - e. confidence



After investigating the launching of pumpkins, I conclude that there is a linear proportional relationship between the time after the pumpkin was launched and the position of the pumpkin in meters. My evidence for this claim is that all of my data fits on a best fit line that is linear proportional. The pumpkin launching can be mathematically modelled as:

$$\text{Pumpkin's Position (m)} = a * \text{time after launch}$$

where a represents the slope of the line; 200 = a

Using this model, I predict that the pumpkin will be 1400 meters away after 7 seconds of flight. I have high confidence in my prediction.

because all of my data points are on the linear trendline, and the trendline is going through the center of all of my data points