

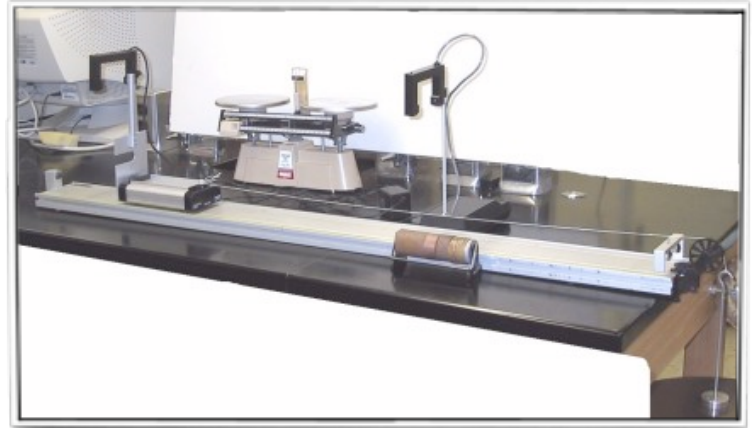
Newton's Second Law

Name _____ Date _____

Procedure Notes:

For the first 6 trials, do not change the **hanging** mass. Change the mass of the car by adding mass for trails 2 to 6.

For the next 6 trials, do not change the **total** mass. Masses removed from the hanger must be placed onto the car for each trial.



Data and Observations

	Hanging Mass (kg)	Car Mass (kg)	Total Mass (kg)	Pulling Force (N)	Acceleration m/s ²
1	_____		_____	_____	
2					
3					
4					
5					
6					
7			_____	_____	
8					
9					
10					
11					
12					

Grade _____

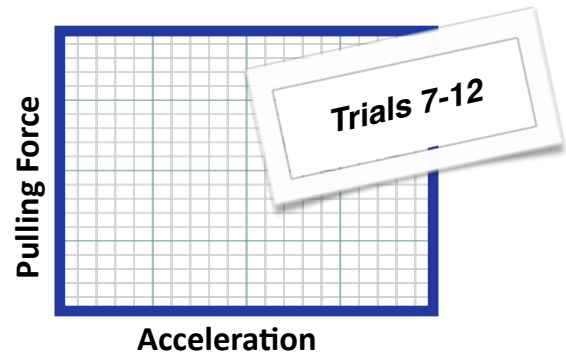
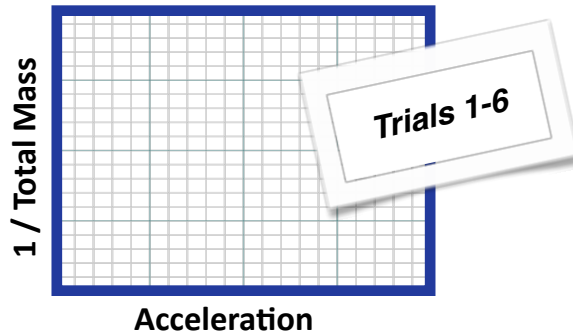
Newton's Second Law

Name _____ Date _____

Calculations:

Use Data Studio again to “enter data”.

Submit two graphs for your group.



Describe each relationship.

Use the “fit” tool to find the slope of the graph.

What is shown by each slope?

What are the percentages of error for your experiment?

Grade