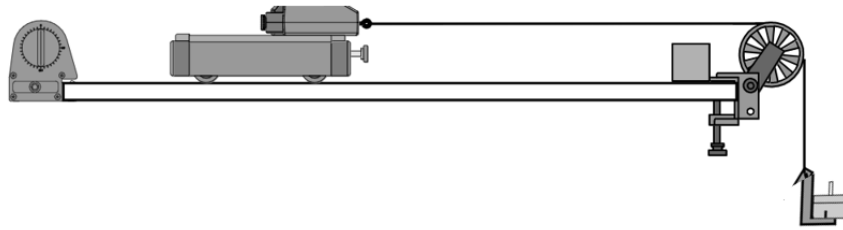


Physics 1 Lab

Investigate the relationship between Force and Acceleration using graphical method.



Discuss before you start the lab following points

Independent Variable:

Dependent variable:

Constant:

How many least numbers of points are needed if you want to graph the data?

Make a table for the data collection and processing, well labelled.

Experiment:

Connect all the apparatus according to the diagram. You can make changes with the discussion of the groupmates. Connect logger pro to the computer.

Finding acceleration: To find acceleration use v-t graph of sparkVue. Find the right interval to get the value of acceleration. You will get help with the use of software if it will be needed.

Repeat one measurement three times, find the average value and put in it the table.

Graph using EXCEL (Individual task but you can discuss and ask for help)

Once the data is collected you have to scatter plot the data using excel file.

Discuss x-axis and y-axis quantities with units.

Draw scatter plot and pass the line of best fit.

The equation of the best fit should be displayed on the graph.

Result

Discuss in your groups