

Directions: Use the blue sheet with instructions to enter data using the program Logger Pro and the orange sheet to describe the graphs that you create. Follow additional instructions on this worksheet.

1. Enter the following data into logger pro.

Pressure (torr)	Volume (mL)
100	800
200	400
400	200
600	133
700	114
800	100
1000	80

a) What is the independent variable?

b) What is the dependent variable?

c) Draw a sketch of the graph. Include a title, labels for the x and y axis (with units) and the relationship between the variables.

e) Describe the relationship between the two variables graphed.

e) What is the general equation for the graph?

f) What is the translated equation for the graph?

2. Enter the following data into logger pro.

Net Force (N)	Acceleration (m/s^2)
0	0
1	2
2	8
3	18
4	32
5	50
6	72

a) What is the independent variable?

b) What is the dependent variable?

c) Draw a sketch of the graph. Include a title, labels for the x and y axis (with units) and the relationship between the variables.

d) Describe the relationship between the two variables graphed.

e) What is the general equation for the graph?

f) What is the translated equation for the graph?

3. Enter the following data into logger pro.

Time (seconds)	Distance (meters)
0	4
2	8
4	12
6	16
8	20
10	24
12	28

- a) What is the independent variable?

- b) What is the dependent variable?

a) Draw a sketch of the graph. Include a title, labels for the x and y axis (with units) and the relationship between the variables.

b) Describe the relationship between the two variables graphed.

c) What is the general equation for the graph?

d) What is the translated equation for the graph?

4. Enter the following data into logger pro.

Time (s)	Distance (m)
0	0
1	5
2	20
3	45
4	80
5	125

- a) What is the independent variable?

- b) What is the dependent variable?

a) Draw a sketch of the graph. Include a title, labels for the x and y axis (with units) and the relationship between the variables.

b) Describe the relationship between the two variables graphed.

c) What is the general equation for the graph?

d) What is the translated equation for the graph?