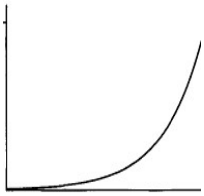
Graphing in Science More Practice
SNC2P

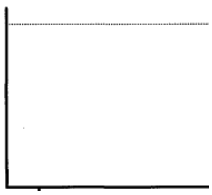
Part 1: Multiple Choice Warm-Up

1. In the graph at right, as the independent variable increases, the dependent variable:



A. increases linearly
B. increases exponentially
C. increases at an increasing rate
D. increases at a decreasing rate

2. The graph at right demonstrates _____ relationship between the variables.



A. a constant
B. an inverse
C. a linear
D. no

3. A straight line of best fit:

A. should be drawn with a ruler
B. should connect all the dots
C. both A and B
D. neither A nor B

Part 2: Graphing

1. On a separate sheet of graph paper, graph the data in the following table. Mass should go on the horizontal axis.

Table 1: Frictional Force Between an Object and a Surface for Different Masses of the Object

Mass (kg)	0.500	1.000	1.500	2.000	2.500
Frictional Force (N)	1.5	2.9	4.4	5.9	7.4

Show your graph to your teacher and ask your teacher to initial this space: _____

2. On a separate sheet of graph paper, graph the data in the following table. Height should go on the horizontal axis.

Table 2: Time Taken for an Object Dropped from Different Heights to Fall

Height (m)	2.00	4.00	6.00	8.00	10.00
Time (s)	0.6	0.9	1.1	1.3	1.4

Show your graph to your teacher and ask your teacher to initial this space: _____

3. On a separate sheet of graph paper, graph the data in the following table. Resistance should go on the horizontal axis.

Table 3: Current through a simple circuit of varying resistance

Resistance (Ω)	10.0	20.0	30.0	40.0	50.0
Current (A)	12.0	6.0	4.0	3.0	2.4

Show your graph to your teacher and ask your teacher to initial this space: _____