Graphing & Interpreting Data Worksheet   Name:_____
Biology   Period:_____Date:_____

The following is some data Ms. Rusilas collected during a past school year. These are actual grades earned by students in Biology. I want to know if grades are affected by attendance and homework. We can figure it out if we create graphs of the data. Use your "How to Draw a Line Graph" handout to make two graphs: Grade vs. Absences <u>and</u> Grade vs. Homework Average.

Use the graph paper handed out in class. The questions below will help to guide you through the assignment. Answer them as you go along.

Graph #1: Grade vs. Absences

Grade	Absences	Homework Average
72	11	84
64	35	63
71	12	92
77	17	80
54	11	38
81	29	67
55	16	55
75	18	30
76	8	79
93	22	88
63	19	50
87	1	93
60	11	54
72	12	64
77	22	61
76	1	69
51	27	41
81	7	84
33	35	17
80	4	88
94	0	100
72	11	63
57	53	62
74	2	74
80	28	64
28	69	17
89	7	87
82	16	92
60	34	50
79	13	92
51	46	29
62	13	78

1. Which variable goes on the horizontal axis? Which one goes on the vertical axis?

2. What is the largest number for GRADE? How will you number the GRADE axis?

3. What is the largest number for ABSENCES? How will you number the ABSENCES axis?

4. Go ahead and plot all of the points. Make sure to remember to label the axes and give your graph a title. What does the graph look like? What happens to the students' grades as the number of absences increases?

5. Is this a direct or inverse relationship? How do you know?

6. What advice would you give to students who want to make sure that they get good grades in science?

Graph #2: Grade vs. Homework Average