**Extra Activities/ projects**:

I. Who wants to be a Millionaire?

This looks at linear vs. Exponential growth. The students make a table, graph and rule for each of the questions.

II. Rebound

This is an experiment where they drop a bouncy ball and look at the rate in which the height of the rebound decreases. More practice with tables, graphs, and equations of exponential functions.

III. M&M Activity

This activity compares exponential growth to exponential decay. It is a hands on project to once again make tables, graphs and equations on exponential functions. Also good for estimating the exponential line from the scatter plot

IV. Urban Swell

This activity looks at population growth over a period of 10 years. It deals with percent of change, using a formula, analyzing data, and using the data and equation to predict future populations.

V. Problem Solving Seminar

These are word problems that deal with exponential growth and decay, scientific notation, exponents, and problem solving skills.

VI. The Death of Mr. Spud

This activity uses a boiled potato to look at how body temperature drops after someone dies. It deals with creating an exponential function of the temperature drop. There are different scenarios for the students to try to see how it affects the rate at which the temperature drops.