

Lecture 12 Two Sets of Y values and a chart with 2 Y axes (chapter 6 continued)

Often in scientific work, we have several values of Y occurring at each X value ie. Time, Pressure, Temp. w/time on the X axis.

Select entire table including heading. We will select an X Y chart for this case

<go through chart wizard>

Suppose we want different axes on Y so we do not have one line w/small variations being over ridden by the other line which may one or several orders of magnitude higher-- how do we do it.

Activate chart

Right click on data line

FORMAT DATA SERIES

Axes, tab

click on secondary

OK

Our graph may still need work

Right click on left axis

Format axis

Scale

To add titles, axis headings, etc.

CHART

Chart Options

Notice our line is straight point to point. We suspect Y is really a curve and we can depict this by smoothing the line.

Right click on line

Format data series

patterns tab – Smooth check (✓) box.

Sometimes in scientific work we run across **missing data** <delete a cell from Table shown on page 66)>

Notice how this impacts the graph – leaves a hole.

By placing = # N/A in the cell, this will allow the graphs to complete without breaks.

Two X axis for separate graphs – (will be combined into 1).

Graph X, Y first series as usual

Select 2nd series and hit copy (traveling box appears)

Activate chart – important

Edit/paste special

Add cells as new series

Value in columns

Check categories (X values) in first column

Sample chart:

