

## Re-Expressing Data

by – Bill Becker

### Activity overview

*The students will learn to create a scatterplot. Students will learn important concepts involving least-squares regressions.*

### Concepts

- *Re-Expressing Data Into Linear Relations Using The Ladder Of Powers*
  - *The Least-Squares Regression Line*
  - *Interpreting Residual Plots*
  - *Using the context of the problem to help decide on the best model*
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### Teacher preparation

*The teacher will need to transfer the ReExpressing Data file to the Nspire handhelds. The students should be familiar with how to use lists and create scatterplots as well as how to perform regressions and interpret their results.*

### Classroom management tips

*The teacher should monitor students during this activity and assist when needed.*

### TI-Nspire Applications

- *ReExpressing Data*
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### Step-by-step directions

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| <ul style="list-style-type: none"><li>▪ Install the file <i>ReExpressing Data</i> on the Nspires.</li><li>▪ Instruct the students to open the <i>ReExpressing Data</i> file on their Nspires.</li><li>▪ The lesson is self paced so expect students to finish at different times. <i>ReExpressing Data Part 2</i> is recommended to be done next which further explores the use of logs in re-expression.</li></ul> |
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