

Re-Expressing Data (Part 2)

by – Bill Becker

Activity overview

The students will learn re-express data as a linear relationship even though the raw data does not fit a linear model. Students will learn important concepts involving data transformation and re-expression. This is an extension of “Re-Expressing Data”.

Concepts

- *Data transformations using logarithms*
 - *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 Part 2 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 Part 2*
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Step-by-step directions

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| <ul style="list-style-type: none">▪ <i>Install the file ReExpressing Data Part 2 on the Nspires.</i>▪ <i>Instruct the students to open the ReExpressing Data Part 2 file on their Nspires.</i>▪ <i>The lesson is self paced so expect students to finish at different times.</i> |
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