Mathematical Modeling on the TI-Nspire™

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Algebra 1 TEKS

- A.4(A) Calculate, using technology, the correlation coefficient between two quantitative variables and interpret this quantity as a measure of the strength of the linear association.

- A.4(C) Write, with and without technology, linear functions that provide a reasonable fit to data to estimate solutions and make predictions for real-world problems.

- A.2(A) Determine the domain and range of a linear function in mathematical problems; determine reasonable domain and range values for real-world situations, both continuous and discrete; and represent domain and range using inequalities.

Algebra 2 TEKS

- 2A.8(A) Analyze data to select the appropriate model from among linear, quadratic, and exponential models.

- 2A.8(B) Use regression methods available through technology to write a linear function from a given set of data.

- 2A.8(C) Predict and make decisions and critical judgments from a given set of data using linear models.

Statistics TEKS

- 7(A) Analyze scatterplots for patterns, linearity, outliers, and influential points.

- 7(B) Transform a linear parent function to determine a line of best fit.

- 7(E) Describe the relationship between influential points and lines of best fit using dynamic graphing technology.

- 7(F) Identify and interpret the reasonableness of attributes of lines of best fit within the context, including slope and y-intercept.

Tootsie Pops & Hand Span

- Activity on MathNspired.com
- Sample data