



TI-Nspire Activity Who's My Parent? A family of linear graphs.

By: Pam Hammond

Activity Overview

The activity looks at a family of functions and identifies the parent function as well as the properties of each function and what makes each function different.

TN State Standards

Objective: TLW learn to explore the effects of changing the slopes and y-intercepts of linear functions. 3102.1.14 Apply graphical transformations that occur when changes are made to coefficients and constants in functions.

SPI 3102.1.5 Recognize and express the effect of changing constants and/or coefficients in problem solving.

3102.3.17 Recognize "families of functions".

3102.3.24 Interpret the changes in the slope-intercept form and graph of a linear equation by looking at different values of the parameters, m and b.

3102.3.25 Find function values using f(x) notation or graphs

SPI 3102.3.8 Determine the equation of a line and/or graph of a linear equation.

Concepts

- Graphing linear graphs and identifying the slope and y-intercept.
- Analyzing the transformations of the functions by changing the coefficient and constants in a function.
- Identifying the parent function.

Teacher Preparation

Download the .tns file Parent Functions. Prepare the student worksheets.