



Getting Started with the TI-84 Plus Family in Middle Grades Mathematics

Available in 1-, 2- and 3-day configurations

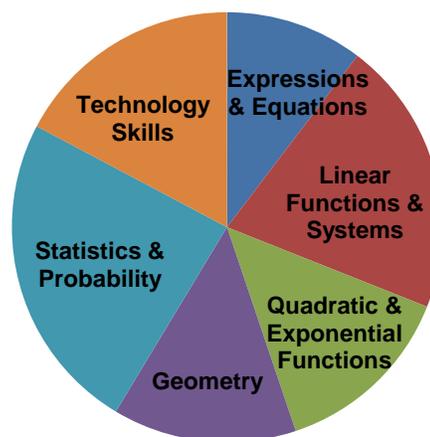
Technology Usage

- Audience:** Educators looking to learn a wide range of TI-84 Plus functions and features for the middle grades mathematics classroom.
- Technology:** TI-84 Plus or TI-84 Plus C Silver Edition graphing calculator, TI-SmartView™ emulator software, TI Connect™ software, CBR 2™ motion sensor
- Overview:** This workshop focuses on appropriate usage of the TI-84 Plus family of graphing calculators and supporting computer software, with an emphasis on numeric, algebraic, geometric, and statistical functionality across the middle grades mathematics curriculum.

Workshop Objectives:

- 1-day Overview of the TI-84 Plus graphing calculator, including an introduction to the MathPrint™ feature and general graphing and statistical functionality; model and analyze univariate data with box plots and histograms; solve linear systems graphically.
- 2-day Additional coverage of features for modeling with multiple representations; exploration of interactive lessons with premade student questions and teacher notes; data collection and analysis with the CBR 2 motion sensor and Vernier EasyData™ app.
- 3-day Deeper coverage of additional technology features, with an emphasis on classroom applications; opportunities to explore activities focused on statistics, probability, and geometry; addresses content from the subjects and units indicated below.

- Middle Grades:** Ratios & Proportional Relationships, The Number System, Expressions & Equations, Functions, Geometry, Statistics & Probability
- Algebra 1:** Linear Functions, Systems of Linear Equations, Quadratic Functions, Exponential Functions



Sample Lesson: *How Steep is a 7% Grade?*

Objective: Make a real-world connection between a road's gradient, which is measured as a percentage, and the slope of a linear function, which is measured as rise/run.

Technology Skills: Load a background image on the TI-84 Plus C Silver Edition; graph a function; transform the linear function $y=x$ with rotations and translations to determine the slope of the road on a highway sign, which is modeled by a right triangle.