Exploring Common Core Topics in High School Mathematics with the TI-84 Plus Family

Available in 1-, 2- and 3-day configurations *Content Knowledge*

Audience: Educators who need support in transitioning to CCSS for high school mathematics.

Technology: TI-84 Plus or TI-84 Plus C Silver Edition graphing calculator; TI-SmartView™ software.

Overview: This workshop addresses content standards in high school mathematics, with a focus on building pedagogical skills for leading discussions, asking students to explain their reasoning and engaging them in the Mathematical Practices with the TI-84 Plus family.

Workshop Objectives:

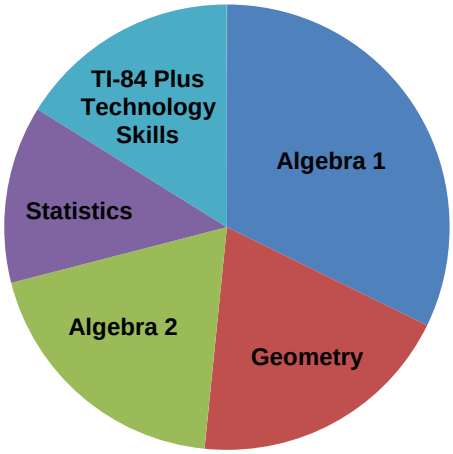
1-day	Identification of main support needs with coverage of key CCSS domains in Algebra, Geometry, and Statistics; introduction to the Common Core Mathematical Practices; overview of essential TI-84 Plus technology skills, including MathPrint™ functionality.
2-day	Introduction to apps designed to explore multiple representations, identify and build functions, and enhance students' understanding of transformational geometry; deeper discussions of the role of technology in engaging students in the Mathematical Practices.
3-day	Broader subject coverage with multiple opportunities for differentiation based on teacher needs; additional Statistics coverage, including features for graphing and analyzing univariate and bivariate data; addresses the subjects and units indicated below.

Algebra 1: Linear Functions, Linear Systems, Functions & Relations, Quadratic Functions, Exponential Functions

Geometry: Similarity & Proportion, Circles, Quadrilaterals & Polygons, Transformational Geometry

Algebra 2: Functions, Matrices, Radical Functions, Probability, Rational Functions

Statistics: Displaying & Describing Univariate Data, Describing Bivariate Data



Sample Lesson: *Pass the Ball*

Objective: Collect data about how long it takes various-sized groups to perform a task. Develop a mathematical model of the data and use it to make predictions.

Content Standards: HSF-BF.1a, HSF-BF.5, HSA-CED.2

Mathematical Practices: Construct viable arguments and critique the reasoning of others; model with mathematics; use appropriate tools strategically.