



Exploring TEKS 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 the TEKS 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 Process Standards with the TI-84 Plus family.

Workshop Objectives:

1-day Identification of main subject support needs with coverage of key knowledge and skills; introduction to the Process Standards; overview of essential technology skills.

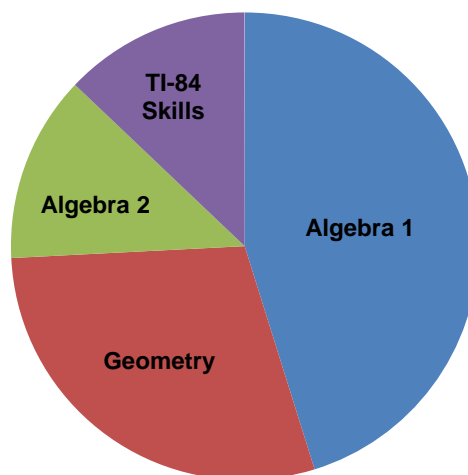
2-day Broader subject coverage with opportunities for differentiation based on teacher needs; additional exploration of interactive content; introduction to the Teacher Software.

3-day Deeper discussions of classroom applications and how technology can support the Mathematical Process Standards; addresses the subjects and units indicated below.

Algebra 1: Linear Functions, Equations, & Inequalities; Quadratic Functions & Equations; Exponential Functions & Equations

Geometry: Coordinate & Transformational Geometry; Proof & Congruence; Similarity, Proof, & Trigonometry; Circles; Probability

Algebra 2: Attributes of Functions & Their Inverses; Systems of Equations & Inequalities; Data



Sample Lesson: *Interpreting Linear Models*

Objective: Model a linear relationship between the independent and dependent variables in a data set. Calculate the correlation coefficient and interpret the strength of the linear association. Write a linear function to estimate solutions and make predictions.

Content Standards: Alg1 4.A-C

Process Standards: Apply mathematics to problems arising in everyday life, society, and the workplace; communicate mathematical ideas, reasoning, and their implications using multiple representations, incl. symbols, diagrams, graphs, and language as appropriate.