



Exploring TEKS Topics in High School Mathematics with TI-Nspire™ Technology

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-Nspire™ CX handhelds and TI-Nspire™ Teacher 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 TI-Nspire™ technology.

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.

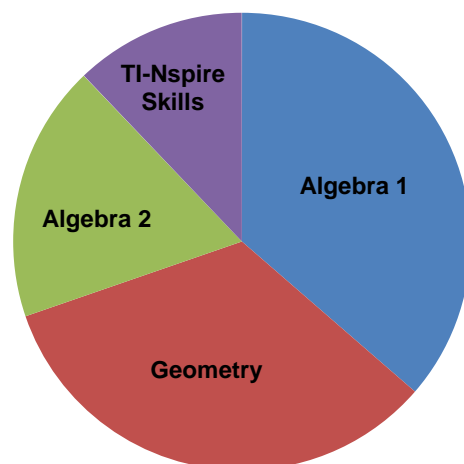
Algebra 1: Linear Functions, Equations, & Inequalities;

Quadratic Functions & Equations;

Exponential Functions & Equations

Geometry: Coordinate & Transformational Geometry; Logical Argument & Constructions; Proof & Congruence; Similarity, Proof, & Trigonometry; 2-D & 3-D Figures; Circles; Probability

Algebra 2: Functions & Their Inverses; Systems of Equations & Inequalities; Quadratic & Square Root Functions; Exponential & Logarithmic Functions; Data



Sample Lesson: Reasoning with Linear Inequalities

Objective: Observe that the solution to a system of linear inequalities is the intersection of the corresponding half planes. Determine whether possible solutions satisfy the inequalities. Graph a system of linear inequalities and determine the solution.

Content Standards: A.2H; A.3D,F,H; 2A.3E,F,G

Process Standard: Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.