



Exploring Algebra with TI-Nspire™ Technology – Special Needs Focus

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

Content Knowledge

Audience: Educators who need support in teaching high school Algebra with a special needs focus.

Technology: TI-Nspire™ CX handhelds and TI-Nspire™ Teacher Software.

Overview: This workshop addresses key Algebra concepts through dynamic, interactive lessons with the TI-Nspire handheld and Teacher Software. Special emphasis is placed on visualization tools involving expressions, equations, functions and inequalities.

Workshop Objectives:

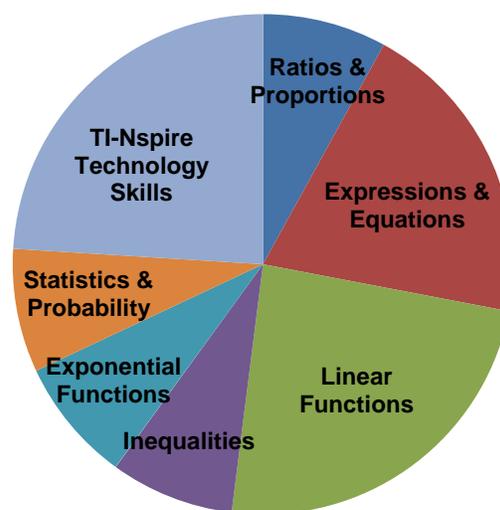
1-day Overview of the TI-Nspire handheld, including general calculator and graphing functionality; exploration of dynamic, interactive lessons with premade student questions and supporting teacher notes; introduction to basic features of the Teacher Software.

2-day Additional coverage of the TI-Nspire handheld, including visualization tools and features for modeling with multiple representations; expanded coverage of the Teacher Software and online resources; opportunities for differentiation based on educators' needs.

3-day Deeper coverage of the TI-Nspire handheld and Teacher Software, emphasizing classroom applications that support a wide range of learning styles; opportunities to explore additional content resources; addresses content from the units indicated below.

Special emphasis will be placed on strategies for identifying multiple entry points to various problem-solving situations. Multiple representations will be discussed in the context of enhancing students descriptive and analytic modeling proficiency,

Essential TI-Nspire technology skills will be introduced, including tools for visualizing and solving equations, graphing and comparing functions, and analyzing data.



Sample Lesson: *Recipe: Unit Rate*

Objectives: Use a ratio to plot points, compute the unit rate, determine a mathematical relationship, and predict additional ordered pairs. Explain what a point (x,y) on the graph of a proportional relationship means in terms of the situation.

Mathematical Practices: Model with mathematics, use appropriate tools strategically, look for and express regularity in repeated reasoning.