# Getting Started with TI-Nspire™ in High School Mathematics

*Available in 1-, 2- and 3-day configurations* *Technology Usage*

**Audience:** Educators looking to learn a wide range of functions and features of TI-Nspire™ technology for the high school mathematics classroom.

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

**Overview:** This workshop focuses on appropriate usage of the TI-Nspire handheld and Teacher Software, with an emphasis on numeric, algebraic, geometric, and statistical functionality through dynamic, interactive lessons across the high school mathematics curriculum.

**Workshop Objectives:**

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| 1-day | Overview of the TI-Nspire handheld, including general calculator, graphing, and statistical functionality; exploration of dynamic, interactive lessons with premade student questions and teacher notes; introduction to basic features of the TI-Nspire Teacher Software. |
| 2-day | Additional coverage of the TI-Nspire handheld, including features for modeling with multiple representations; expanded coverage of the Teacher Software and online resources; opportunities for differentiation based on educators' subject areas and needs. |
| 3-day | Deeper coverage of the TI-Nspire handheld and Teacher Software, emphasizing classroom applications and broad subject coverage; opportunities to explore additional features and activities; addresses content from the subjects and units indicated below. |

**Middle Grades:** Expressions & Equations, Geometry, Statistics & Probability

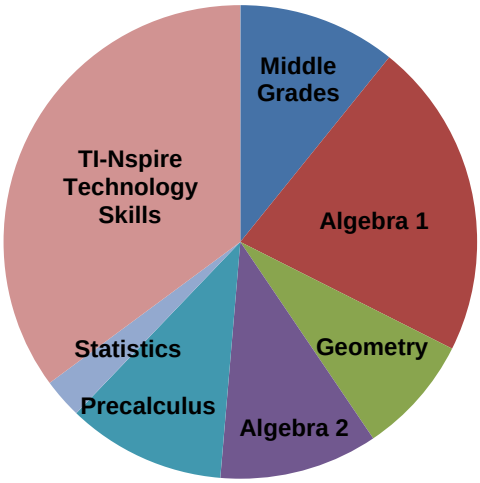
**Algebra 1:** Linear Functions, Linear Inequalities, Functions & Relations, Quadratic Functions, Exponential Functions

**Geometry:** Similarity & Proportion, Right Triangles & Trig, Perimeter & Area

**Algebra 2:** Functions, Quadratics, Polynomials

**Precalculus:** Functions & Graphs; Polynomial, Power, & Rational Functions; Trigonometry; Applications of Trig.

**Statistics:** Displaying & Describing Univariate Data




**Sample Lesson:** *You Are What You Eat!*

**Objective:** Develop a linear model to predict the number of calories in fast food hamburgers when given the number of grams of fat; interpret the slope of a line in this context.

**Technology Skills:** Construct a scatter plot to investigate patterns of association; informally model a linear relationship by transforming a line of best fit; calculate a regression equation