



Audience: Educators with previous TI-Nspire experience who want to learn additional functions and features of TI-Nspire technology for the high school mathematics classroom.

Technology: TI-Nspire™ CX handhelds, TI-Nspire™ Teacher Software, CBR 2™ motion sensor, Vernier EasyTemp® USB temperature sensor.

Overview: This workshop focuses on deeper integration of the TI-Nspire handheld and Teacher Software in the high school mathematics classroom, with an emphasis on mathematical modeling with multiple representations and creating interactive TI-Nspire documents.

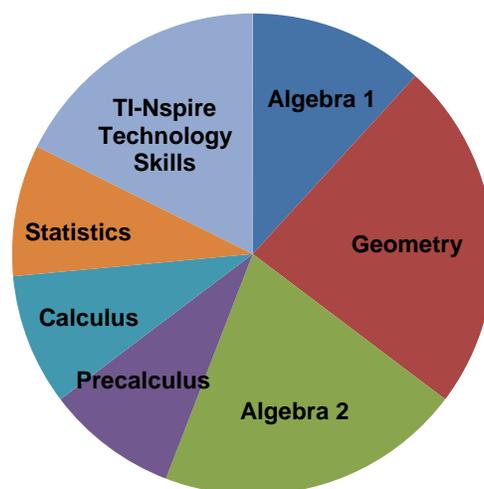
Workshop Objectives:

1-day Review of the TI-Nspire handheld; function investigation by creating a TI-Nspire document with sliders; exploration of dynamic, interactive lessons with premade student questions and teacher notes; creation of assessment documents using the Teacher Software.

2-day Additional coverage of the built-in Graphs, Data & Statistics, and Calculator applications, including basic CAS functionality; mathematical modeling using interactive Math Boxes; opportunities for differentiation based on educators' subject areas and needs.

3-day Introduction to the PublishView™ feature, which allows interactive lessons with embedded video to be created in the Teacher Software; data collection and analysis with the EasyTemp sensor; addresses content from the subjects and units indicated below.

- Algebra 1:** Linear Functions
- Geometry:** Triangles, Similarity & Proportion, Right Triangles & Trig, Perimeter & Area, Transformational Geometry
- Algebra 2:** Functions; Quadratics; Powers, Roots, & Radical Functions; Polynomials; Logarithms & Exponentials; Probability
- Precalculus:** Trigonometry, Applications of Trigonometry, Analytic Geometry
- Calculus:** Derivatives
- Statistics:** Describing Bivariate Data



Sample Lesson: *Modeling the Fountain*

Objective: Use the Teacher Software to create a document that models a water fountain. Transfer the document to a TI-Nspire handheld, manually capture data into a spreadsheet, calculate a quadratic regression, and graph and analyze the function.

Technology Skills: Insert an image into a TI-Nspire document, create and analyze a scatter plot.