



Implementing the TEKS Mathematical Process Standards with the TI-84 Plus Family

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

Instructional Practice

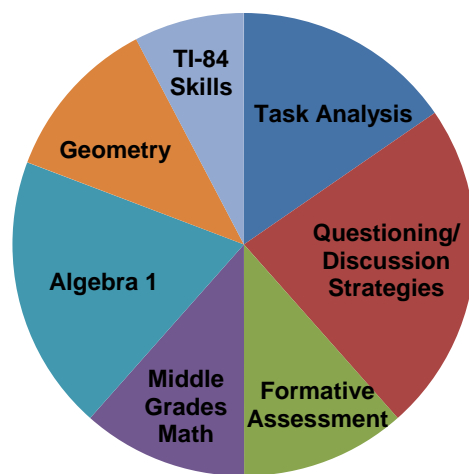
- Audience:** Educators who want to implement the TEKS Mathematical Process Standards in middle grades and high school classrooms using the TI-84 Plus family.
- Technology:** TI-84 Plus or TI-84 Plus C Silver Edition graphing calculator.
- Overview:** This workshop models rich tasks using in-depth discussions and the TEKS Mathematical Process Standards, with an emphasis on task analysis, questioning strategies, and essential TI-84 technology skills to enhance student learning.

Workshop Objectives:

- | | |
|-------|--|
| 1-day | Introduction to the TEKS Mathematical Process Standards, including how to identify them in action through task analysis; brief discussions of classroom applications and how technology can support the standards; overview of essential TI-84 technology skills. |
| 2-day | Additional coverage of the Process Standards, including video analysis of educators implementing the standards; discussion of questioning strategies that promote student learning; further exploration of dynamic, interactive content using the TI-84 Plus family. |
| 3-day | Deeper discussions of strategies for engaging students in the Process Standards; exploration of formative assessment opportunities and techniques; reflection on the role of technology; addresses tasks from the subjects and units indicated below. |

- Middle Grades:** Geometry, Statistics & Probability
- Algebra:** Equations, Linear Functions, Systems of Linear Equations, Quadratic Functions, Polynomials
- Geometry:** Points, Lines & Angles; Right Triangles & Trig; Transformational Geometry

Essential TI-84 technology skills will be introduced, including general calculator, graphing, tabular, and statistical functionality.



Sample Lesson: *What's My Rule?*

- Objective:** Discuss the Process Standards in the context of an interactive lesson where students move a point in the coordinate plane, observe the movement of a corresponding point, and write a rule that describes the mathematical relationship.
- Process Standards:** Analyze mathematical relationships to connect and communicate mathematical ideas; display, explain, and justify mathematical ideas and arguments.