



# Professional Services

## Multi-Representation: Teaching Linear, Quadratic, and Exponential Functions Grades 8-11

### Overview:

This workshop will provide you with the foundations for understanding and teaching linear, quadratic, and exponential equations and functions through the use of multi-representational models. You will explore strategies to deepen conceptual and procedural knowledge

### Outcomes

- Participants will discuss and explore the teaching of quadratic, and exponential functions for deep understanding, not just symbolic manipulation.
- Give guidance to help students identify meaningful strategies
- Provide strategies to help students to identify and remedy their misconceptions and reconstruct their thinking
- Experience a multi-representational lesson, analyze the lesson approach, and construct other lessons following that model.
- Co-construct assessment items that demonstrate and reflect a multi-representational understanding of exponential functions

### Audience

Senior High school Math Teachers,  
Grades 8-11

### Number of participants

30 to 50

### Delivery Method

Face to Face

### Length of Course

One Day

### Course Fee

\$129 per person