

Agenda for Phase 1 of Middle School Math PD

Phase 1 timing breakdown: ~5 hours

Teachers will complete an online course that covers Bootstrap at a high level, and its connection to mathematics.

- *1/2 hour.* Welcome to Open edX
 - Become familiar with the learning platform
- *3 min.* Introductory Video
- *5 hours.* Readings and Reflections:
 - Critical Juncture Ahead! Proceed with Caution to Introduce the Concept of Function
 - Learning by Understanding: The Role of Multiple Representations in Learning Algebra. American Educational Research
 - On the cognitive effects of learning computer programming
- *10 minutes each.* Videos (optional)
 - Modeling and Coordinates
 - Order of Operations
 - Domain and Range
 - Adding Images to a File
 - Debugging with Error Messages
 - Defining Values
 - Word Problems
 - Inequalities in the Plane
 - Piecewise Functions
 - The Pythagorean Theorem