

Module 3 Overview: Mathematical Practices

This module provides an overview of the Standards for Mathematical Practices from the Common Core State Standards. Participants will identify the characteristics of a student and classroom that exemplify mathematical practices.

PowerPoint Presentation/Script

- Slide show to guide the presentation
- Script with explanation and narrative

Handouts/Activities

- Welcome (slide1) through Dan Meyer (slide 5)
If you include scale drawing activity; add 10 minutes
Watch and discuss the Dan Meyer video
Video: <http://www.youtube.com/watch?v=SjsfHTuZ14>
- Expected outcomes (slide 6-7)
- Standards for Mathematical Practices (slide 8) through Grouping Standards (slide 12)
Handout: MOD 3 Mathematical Practice Grouping Chart
- List of Standards (slide13)
- Math rigor (slide14) and Button Task (slide15)
Handout: MOD 3 Button Task
- Inside mathematics (slide 17) through learner A (slide18) through learner B (slide19)
Video: <http://www.insidemathematics.org/index.php/classroom-video-visits/public-lessons-numerical-patterning/218-numerical-patterning-lesson-planning?phpMyAdmin=NqJS1x3gaJqDM-1-8LXtX3WJ4e8>
- Buttons Task revisited (slide 20)
Handout: MOD 3 Button Task packet for review
- Video of elementary or secondary audience (slide 21-22)
Elementary: <http://insidemathematics.org/index.php/classroom-video-visits/public-lesson-number-operations/182-multiplication-a-divison-problem-4-part-c>
Secondary: <http://www.insidemathematics.org/index.php/classroom-video-visits/public-lessons-properties-of-quadrilaterals/300-properties-of-quadrilaterals-tuesday-group-work-part-a?>
- Traditional US problem (slide 23)
- Reflection questions (slide 25)
Handout: MOD 3 Handout MP Overview Reflections

Materials

- Table tents for names
- Chart paper/markers
- Index cards

Technology Needs

- Laptop capable of delivering PowerPoint
- Projector/screen
- Access to the Internet

Room Organization

- The participants should be organized in small groups of 4 to 8 with the flexibility to be able to work in pairs or share with the group as a whole.