

Math Practices Overview (Facilitation Guide)

Presenter:

Intended Use

This facilitation guide is intended to be used by educators when viewing the voice-over recording of Standards for Mathematical Practices Overview. State Support Team staff, Educational Service Center consultants, districts, and schools are encouraged to use this resource as part of a professional learning series that covers all 8 of the Standards for Mathematical Practice.

Viewing the recordings of the Math Practice sessions can be done in any order. To get the full benefit of the professional learning series, educators should engage in the tasks and participate in local discussions on the Mathematical Practice. Therefore, viewing the professional learning series in small groups is encouraged over individuals watching it in isolation.

Reproducing the Facilitation Guide

If making copies of any portion of this facilitation guide or accompanying PowerPoint presentation, please credit the Ohio Department of Education and Workforce.

During Facilitation: Discussion Questions

Pause the recording at the times indicated in the recording and have discussions in smaller groups, and then in the larger group.

DISCUSSION QUESTION

PowerPoint Slide 15: In-person Discussion or Virtual Waterfall Chat

- *Live Session Participants:* Engage in local discussions using the question, “What comes to your mind when you think about the Standards for Mathematical Practice?”.
- *Virtual Presentation Participants:* Allow time for individual reflection and writing. Have participants enter their response to the question. “What comes to your mind when you think about the Standards for Mathematical Practice?” in a waterfall chat. Provide time for the attendees to read through and discuss responses from the waterfall chat prior to moving on.

DISCUSSION QUESTIONS

PowerPoint Slides 17, 23, 29, 35, 41, 47, 53, and 59: In-person Discussions or Virtual Breakout Rooms

- *Live Session Participants:* Engage in local discussions using the questions
 - What theme(s) do you notice within each of the different MPs?
 - What stands out to you about this MP?
- *Virtual Presentation Participants:*
 - Place participants into 8 breakouts (i.e., one for each of the 8 MPs). Assign each one of the 8 breakout rooms a Mathematical Practice to focus on.

- Using the resources provided in the links on Slides 17, 23, 29, 35, 41, 47, 53, and 59 have participants discuss:
 - What theme(s) do you notice with the MP you were assigned in your breakout room?
 - What stands out to you about this MP?

DISCUSSION QUESTIONS

PowerPoint Slides 20, 26, 32, 38, 44, 50, 56, 62: Viewing the MPs in the classroom

1. What do you think of when you think of that Math Practice?
2. What do you think the Math Practice means or looks like at your grade level/course?

Resource Links

Ohio Department of Education Documents

- [Standards for Mathematical Practice](#)
- [Kindergarten - Grade 5](#)
- [Grades 6-8](#)
- [High School](#)

University of Arizona Progressions

- [Standards for Mathematical Practice: Commentary and Elaborations for K-5](#)
- [Standards for Mathematical Practice: Commentary and Elaborations for 6-8](#)

Other National Resources

- [Inside Mathematics](#)
- [Illustrative Mathematics](#)
- [Robert Kaplinsky: Math CCSS Math Practices Readable](#)

References

Illustrative Mathematics. (2014, February 12). *Standards for Mathematical Practice: Commentary and Elaborations for K–5*. Tucson, AZ.

Illustrative Mathematics. (2014, May 6). *Standards for Mathematical Practice: Commentary and Elaborations for 6–8*. Tucson, AZ.

Koestler, C., Felton-Koestler, M. D., Bieda, K., & Otten, S. (2013). *Connecting the NCTM process standards and the CCSSM practices*. Reston, VA: The National Council of Teachers of Mathematics.

O'Connell, S., & SanGiovanni, J. (2013). *Putting the practices into action: Implementing the common core standards for mathematical practice, K-8*. Portsmouth, NH: Heinemann.

Conversation Notes: