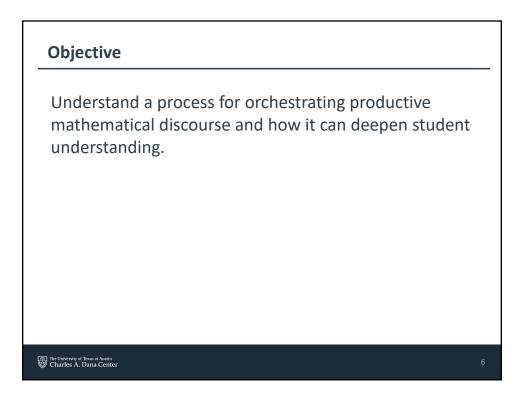
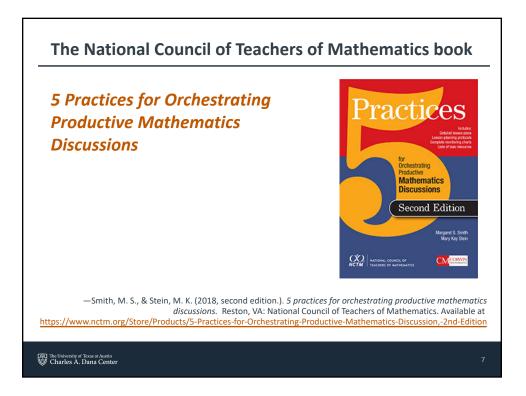
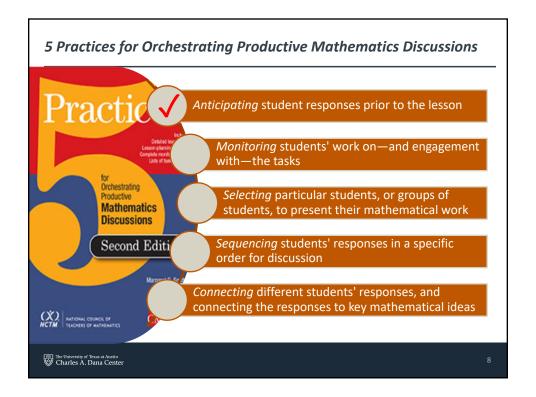
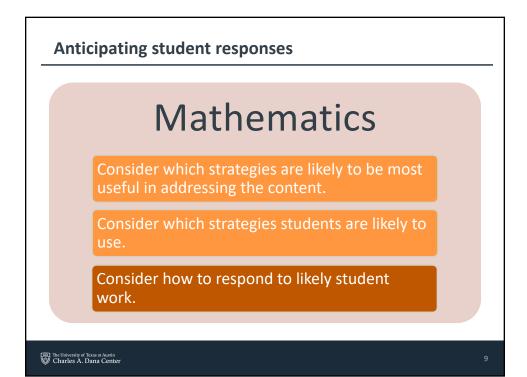


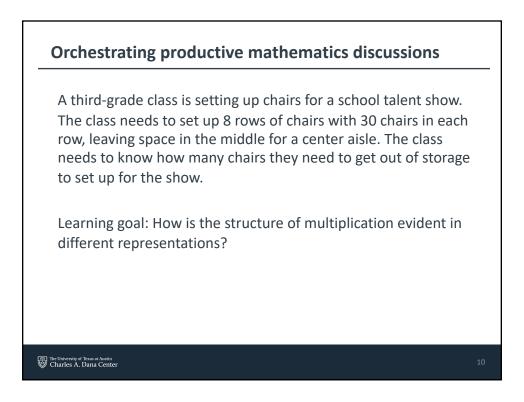
Contact information	
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Visit the Dana Center website at <u>utdanacenter.org</u> .	
Find us on Facebook at <u>facebook.com/utdanacenter</u> or on Twitter at <u>@UTDanaCenter</u> .	
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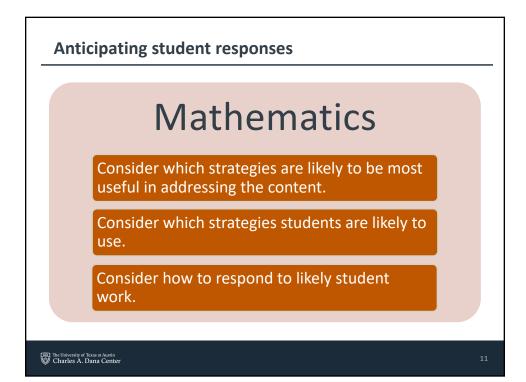


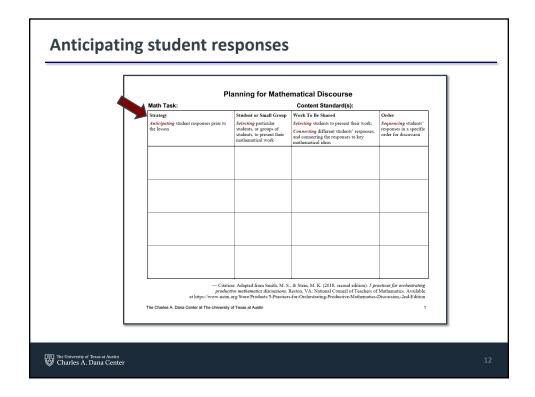


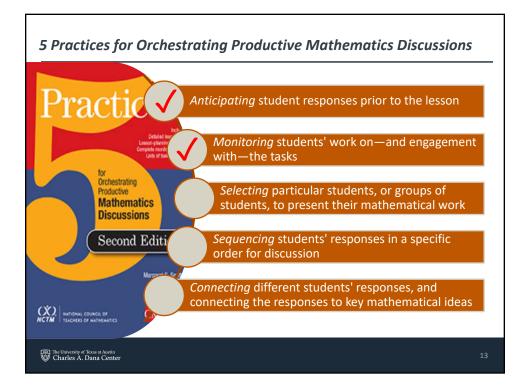


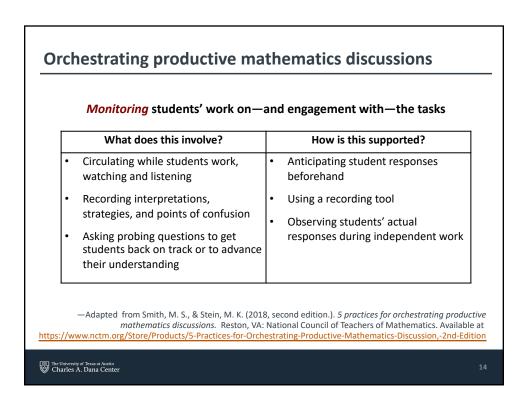


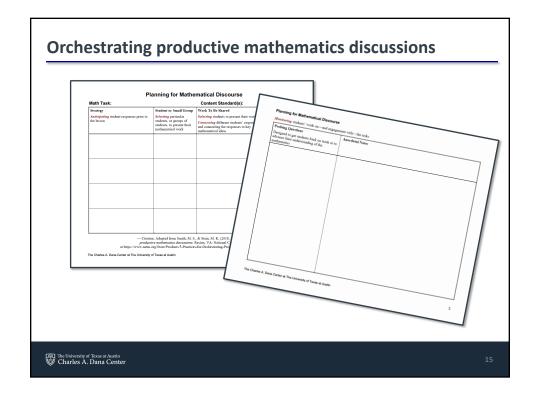


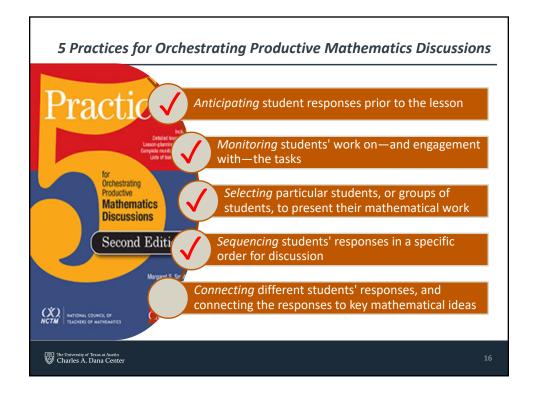












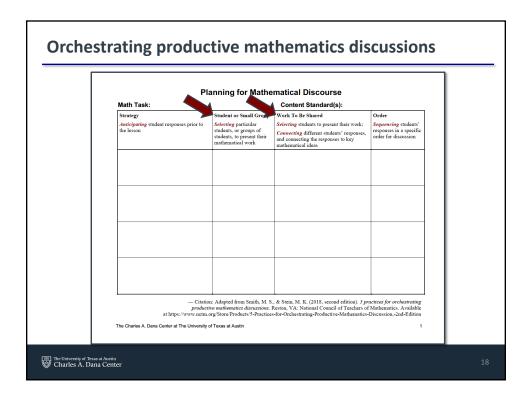
Orchestrating productive mathematics discussions

Selecting particular students, or groups of students, to present their mathematical work

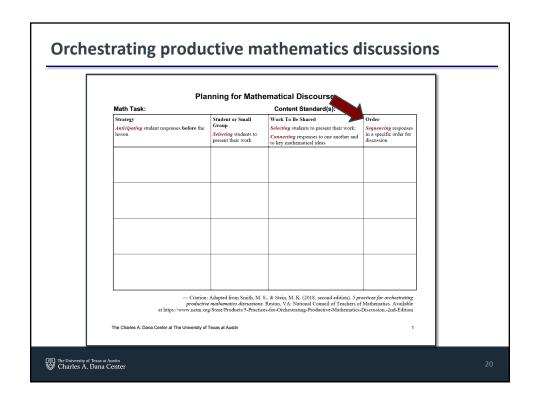
What does this involve?	How is this supported?
 Choosing students to present because of the mathematics in their responses Making sure that over time, all students are seen as authors of mathematical ideas and have the opportunity to demonstrate competence Gaining some control over the content of the discussion 	 Anticipating and monitoring Planning in advance which types of responses to select, perhaps considering an incorrect solution to illustrate a typical misconception Being ready to consider unanticipated solutions

—Adapted from Smith, M. S., & Stein, M. K. (2018, second edition.). 5 practices for orchestrating productive mathematics discussions. Reston, VA: National Council of Teachers of Mathematics. Available at https://www.nctm.org/Store/Products/5-Practices-for-Orchestrating-Productive-Mathematics-Discussion,-2nd-Edition

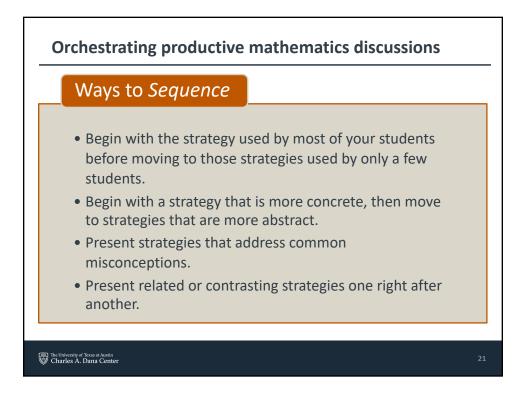
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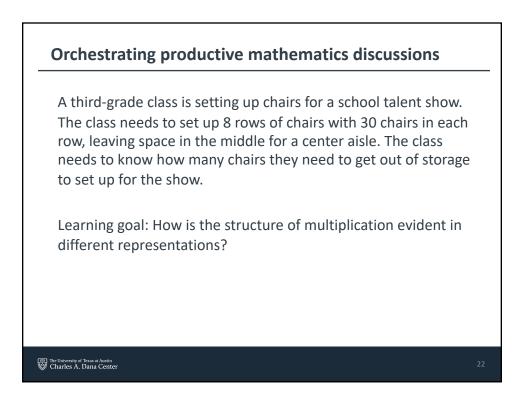


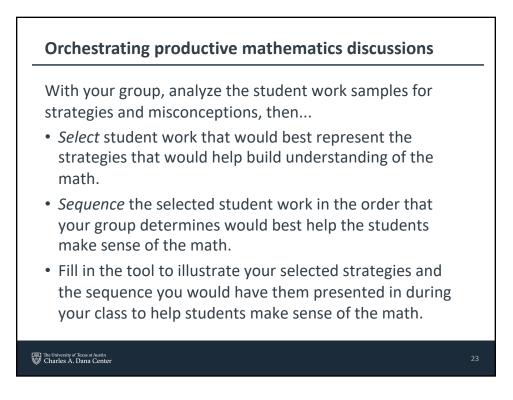
	What does this involve?	How is this supported?
• •	Purposefully ordering presentations so that the mathematics is accessible to all students Building a mathematically coherent story line from prior knowledge to current grade-level standards	 Anticipating, monitoring, and selecting During anticipation work, considering how possible student responses are mathematically related
	—Adapted from Smith. M. S., & Stein, M. K. (201	8, second edition.). 5 practices for orchestrating produc

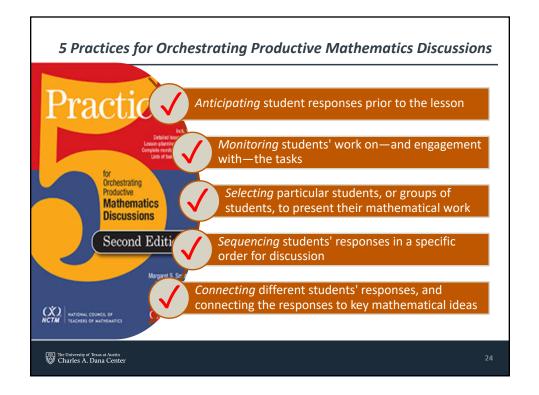


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Orchestrating productive mathematics discussions

Connecting different students' responses, and **connecting** the responses to key mathematical ideas

	What does this involve?	How is this supported?
•	Encouraging students to use questioning to make mathematical connections between different student responses Making salient the key mathematical ideas that are the focus of the lesson Considering extensions as they come from the students or the teacher	 Anticipating, monitoring, selecting, and sequencing Considering how students might be prompted to recognize mathematical relationships between responses Cultivating a classroom culture with explicit supports for student discourse
ps:/	mathematics discussions. Reston, VA:	8, second edition.). 5 practices for orchestrating product National Council of Teachers of Mathematics. Available estrating-Productive-Mathematics-Discussion,-2nd-Editi
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