

Practices for Orchestrating Productive Mathematical Discussions

- **Anticipating** likely student responses to challenging mathematical tasks
- **Monitoring** students' responses to the tasks (while students work on the tasks in pairs or small group)
- **Selecting** particular students to present their mathematical work during the whole class discussion
- **Sequencing** the student responses that will be displayed in a specific order;
- **Connecting** different students' responses and connecting the responses of key mathematical ideas

Task	Cluster/Standard:	
	Standard for Mathematical Practice:	
Questions to Ask:		
Strategy (Anticipating)	Who and What (Selecting)	Order (Sequencing)
Anticipated Strategy #1		
Anticipated Strategy #2		
Anticipated Strategy #3		
Anticipated Strategy #4		
Other Strategies		

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Questions to Ask:		
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Anticipated Strategy #1		
Anticipated Strategy #2		
Anticipated Strategy #3		
Anticipated Strategy #4		
Anticipated Strategy #5		
Anticipated Strategy #6		
Other Strategies		

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Mathematical Goal/Objective:
Task & Source:
Questions/Prompts to Use:

Strategy (Anticipating)	Who did what? (Selecting)	Order (Sequencing)
Anticipated Strategy #1		
Anticipated Strategy #2		
Anticipated Strategy #3		
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Task: 4th Grade, Topic 1, Performance Task	Cluster/Standard: 4.OA.A.3 - Solve problems with 4 operations Standard for Mathematical Practice: SMP #1 (make sense), 5 (tools)	
Strategy (Anticipating)	Who and What (Selecting)	Order (Sequencing)
Anticipated Strategy #1 Questions #1&2: Correct equation, look for examples with different levels of labels to reinforce their use		
Anticipated Strategy #2 Questions #1&2: Possible errors: $20 \div 6 = 3 \text{ } r \text{ } 2$ Have student label and discuss if the equation answers the question.		
Anticipated Strategy #3 Question #3: Diagram (with and without labels)		
Anticipated Strategy #4 Question #3: equations (with and without labels)		
Other Strategies Extension: combinations		

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