

## 5 Practices for Orchestrating Productive Mathematical Discourse

Mathematical Learning Goal: \_\_\_\_\_

1. **Anticipating** likely mathematical strategies for a challenging mathematical task
2. **Monitoring** students' responses to the tasks (through observation and questioning)
3. **Selecting** particular students to present their mathematical work during whole class discussion
4. **Sequencing** the student responses to be shared in a specific, intentional order
5. **Connecting** different students' responses to one another and the mathematical goal

<b>Task:</b>  <b>Questions:</b>	<b>Standard for Mathematical Practice</b> (circle all that apply) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 25%; padding: 5px; vertical-align: top;"> <b>MP1:</b> Make sense of problems and persevere in solving them         </td> <td style="width: 25%; padding: 5px; vertical-align: top;"> <b>MP2:</b> Reason abstractly and quantitatively         </td> <td style="width: 25%; padding: 5px; vertical-align: top;"> <b>MP3:</b> Construct viable arguments and critique the reasoning of others         </td> <td style="width: 25%; padding: 5px; vertical-align: top;"> <b>MP4:</b> Model with mathematics         </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;"> <b>MP5:</b> Use appropriate tools strategically         </td> <td style="padding: 5px; vertical-align: top;"> <b>MP6:</b> Attend to precision         </td> <td style="padding: 5px; vertical-align: top;"> <b>MP7:</b> Look for and make use of structure         </td> <td style="padding: 5px; vertical-align: top;"> <b>MP8:</b> Look for and express regularity in repeated reasoning         </td> </tr> </table>	<b>MP1:</b> Make sense of problems and persevere in solving them	<b>MP2:</b> Reason abstractly and quantitatively	<b>MP3:</b> Construct viable arguments and critique the reasoning of others	<b>MP4:</b> Model with mathematics	<b>MP5:</b> Use appropriate tools strategically	<b>MP6:</b> Attend to precision	<b>MP7:</b> Look for and make use of structure	<b>MP8:</b> Look for and express regularity in repeated reasoning
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<b>Strategy</b>	<b>Who and What</b>								
<b>Anticipated Strategy #1</b>	<b>ORDER: _____</b>								
<b>Anticipated Strategy #2</b>	<b>ORDER: _____</b>								
<b>Anticipated Strategy #3</b>	<b>ORDER: _____</b>								
<b>Other Observations:</b>									

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