

The 8 Mathematical Practices For Students and Teachers

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| To increase their proficiency in mathematics, the students will: | ✓ <i>Make sense of problems and persevere in solving them</i> |
| | ✓ <i>Reason abstractly and quantitatively</i> |
| | ✓ <i>Construct viable arguments and critique the reasoning of others</i> |
| | ✓ <i>Model with mathematics</i> |
| | ✓ <i>Use appropriate tools strategically</i> |
| | ✓ <i>Attend to precision</i> |
| | ✓ <i>Look for and make use of structure</i> |
| | ✓ <i>Look for and express regularity in repeated reasoning</i> |
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| To foster students' mathematics proficiency, the teacher will: | ✓ <i>Establish mathematics goals to focus learning</i> |
| | ✓ <i>Implement tasks that promote reading and problem solving</i> |
| | ✓ <i>Facilitate meaningful mathematical discourse</i> |
| | ✓ <i>Use and connect mathematical representations</i> |
| | ✓ <i>Pose purposeful questions</i> |
| | ✓ <i>Build procedural fluency from conceptual understanding</i> |
| | ✓ <i>Support productive struggle in learning mathematics</i> |
| | ✓ <i>Elicit and use evidence of student thinking</i> |