

## Student Success Skills

<b>Productive Practices</b> (What it IS)	<b>Unproductive Practices</b> (What it is NOT)
<p><b>Balanced goals of mathematical learning and performance goals</b></p> <ul style="list-style-type: none"> <li>● Teacher studies the progression of mathematics when considering goals.</li> <li>● Teachers and students value the learning process.</li> <li>● Students see effort put forth as a pathway to high levels of learning.</li> </ul>	<p><b>One-sided goals focused solely on performance or learning</b></p> <ul style="list-style-type: none"> <li>● Teacher values procedures and computation over conceptual understanding.</li> <li>● Teachers and students only value the correctness of answers.</li> <li>● Students and teachers view effort negatively and unnecessary for learning.</li> </ul>
<p><b>High-quality, open mathematical tasks</b></p> <ul style="list-style-type: none"> <li>● Teacher implements tasks that promote conceptual understanding prior to procedural fluency.</li> <li>● Students embrace challenges as learning opportunities.</li> <li>● Students make multiple connections and reason qualitatively and quantitatively.</li> <li>● Students persevere while creatively and critically solving problems.</li> </ul>	<p><b>Mathematical procedures and memorized facts</b></p> <ul style="list-style-type: none"> <li>● Teacher values procedures and computation over conceptual understanding.</li> <li>● Students avoid challenges.</li> <li>● Students practice procedures without connections to mathematical representations.</li> <li>● Students express apathy to mathematics, failing to see relevance and connections.</li> </ul>
<p><b>Promote struggle as a means of learning</b></p> <ul style="list-style-type: none"> <li>● Teacher and students recognize struggle as part of meaningful learning experiences.</li> <li>● Teacher demands engagement instead of tolerating compliance.</li> <li>● Teacher intentionally acknowledges mistakes using responsive teaching.</li> <li>● Teacher believes all students are capable of learning mathematics at high levels.</li> <li>● Teacher maintains rigor in mathematical tasks.</li> <li>● Technology enhances mathematical concepts and understanding.</li> </ul>	<p><b>Alleviate struggle as a means of help</b></p> <ul style="list-style-type: none"> <li>● Teacher and students view struggle as a negative outcome of not knowing or understanding content.</li> <li>● Teacher promotes compliance instead of valuing engagement.</li> <li>● Teacher and students view mistakes as rigid and absolute, limiting the learning opportunity of preconceived misconceptions.</li> <li>● Teacher believes that not all students are capable of learning and demonstrating mathematical understanding.</li> <li>● Teacher unintentionally decreases rigor and demand.</li> <li>● Technology is a substitute for the teacher.</li> </ul>

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Productive Practices (What it IS)	Unproductive Practices (What it is NOT)
<p style="text-align: center;"><b>Meaningful student discourse</b></p> <ul style="list-style-type: none"> <li>Teacher assumes facilitator role to pose questions in a strategic way that meets students needs, honors students current level of thinking, and progresses their thinking in the search for understanding and skill.</li> <li>Teacher and students develop mutual respect, utilize strategies to build a safe and supportive culture while constructing viable arguments and critiquing the reasoning of others in a courteous manner.</li> <li>Students share in the responsibility of listening, questioning, constructing, and critiquing.</li> </ul>	<p style="text-align: center;"><b>Teacher-directed discussion</b></p> <ul style="list-style-type: none"> <li>Teacher delivers information to students, with minimal regard for students' prior knowledge.</li> <li>Teacher directs discussion, asking questions that focus on efficient solution paths with correct answers only.</li> <li>Students listen and reply directly to the teacher when requested, with little to no peer interaction.</li> </ul>
<p style="text-align: center;"><b>Effectively assess learning and performance goals</b></p> <ul style="list-style-type: none"> <li>Teacher encourages students to set, monitor, adapt, and evaluate goals, valuing the learning process.</li> <li>Teacher assesses understanding through a variety of methods (i.e. mathematical models, strategies, algorithms).</li> <li>Teacher and students engage in a feedback cycle to promote growth.</li> </ul>	<p style="text-align: center;"><b>Assessment focuses on procedures over learning</b></p> <ul style="list-style-type: none"> <li>Teacher grades using points, focusing on correct/incorrect responses, rather than through the lens of learning gradations.</li> <li>Teacher assesses skills only, rather than balanced with deep understanding.</li> <li>Feedback is stagnant, in the form of point deductions, with no reteaching or revisiting concepts.</li> </ul>
<p style="text-align: center;"><b>Grades accurately communicate learning</b></p> <ul style="list-style-type: none"> <li>Teacher monitors and reports mathematical learning and performance goals separate from student success skills and non-academic factors.</li> <li>Teacher communicates grades that represent an accurate picture of what students know and can to do, allowing students to submit revisions without penalty to promote continuous learning.</li> <li>Teachers allow students to submit revisions, without penalty, to promote continuous learning.</li> <li>Teacher promotes equitable grading practices.</li> </ul>	<p style="text-align: center;"><b>Grade inflation misrepresents learning</b></p> <ul style="list-style-type: none"> <li>Teacher combines academic and non-academic factors into one report.</li> <li>Teacher records grades based on lesson progression without instructional adjustments based on student needs, following a rigid timeline for mastery of content.</li> <li>Teacher records first attempts at learning without resubmissions for learning opportunities.</li> <li>Teacher applies equal grading practices.</li> </ul>