

# Practices in Mathematics, Science, and English Language Arts\*

Math	Science	English Language Arts
<b>M1.</b> Make sense of problems and persevere in solving them.	<b>S1.</b> Asking questions (for science) and defining problems (for engineering).	<b>E1.</b> They demonstrate independence.
<b>M2.</b> Reason abstractly and quantitatively.	<b>S2.</b> Developing and using models.	<b>E2.</b> They build strong content knowledge.
<b>M3.</b> Construct viable arguments and critique the reasoning of others.	<b>S3.</b> Planning and carrying out investigations.	<b>E3.</b> They respond to the varying demands of audience, task, purpose, and discipline.
<b>M4.</b> Model with mathematics.	<b>S4.</b> Analyzing and interpreting data.	<b>E4.</b> They comprehend as well as critique.
<b>M5.</b> Use appropriate tools strategically.	<b>S5.</b> Using mathematics, information and computer technology, and computational thinking.	<b>E5.</b> They value evidence.
<b>M6.</b> Attend to precision.	<b>S6.</b> Constructing explanations (for science) and designing solutions (for engineering).	<b>E6.</b> They use technology and digital media strategically and capably.
<b>M7.</b> Look for and make use of structure.	<b>S7.</b> Engaging in argument from evidence.	<b>E7.</b> They come to understanding other perspectives and cultures.
<b>M8.</b> Look for and express regularity in repeated reasoning.	<b>S8.</b> Obtaining, evaluating, and communicating information.	

\* The Common Core English Language Arts uses the term “student capacities” rather than the term “practices” used in Common Core Mathematics and the Next Generation Science Standards.





	<b>Students are:</b>	<b>Individual (1T-1S)</b>	<b>Evidence</b>	<b>Group (Peer-Peer)</b>	<b>Evidence</b>
1a	Make sense of problems				
1b	Persevere in solving them				
2	Reason abstractly and quantitatively				
3a	Construct viable arguments				
3b	Critique the reasoning of others				
4	Model with Mathematics				
5	Use appropriate tools strategically				
6	Attend to precision				
7	Look for and make use of structure				
8	Look for and express regularity in repeated reasoning				