Math

M1: Make sense of problems and persevere in solving them

M2: Reason abstractly & quantitatively

M6: Attend to precision

M7: Look for & make use of structure

M8: Look for & make use of regularity in repeated reasoning

E6: Use technology & digital media strategically & capably

M5: Use appropriate tools strategically

Science

M4. Models with mathematics

S2: Develop & use models

S5: Use mathematics & computational thinking

E2: Build a strong base of knowledge through content rich texts

E5: Read, write, and speak grounded in evidence

M3 & E4: Construct viable arguments and critique reasoning of others

S7: Engage in argument from evidence

S1: Ask questions and define problems

S3: Plan & carry out investigations

S4: Analyze & interpret data

S6: Construct explanations & design solutions

s8: Obtain, evaluate, & communicate information

E3: Obtain, synthesize, and report findings clearly and effectively in response to task and purpose

Commonalities
Among the Practices
in Science, Mathematics
and English Language Arts

Based on work by Tina Chuek ell.stanford.edu

E1: Demonstrate independence in reading complex texts, and writing and speaking about them

E7: Come to understand other perspectives and cultures through reading, listening, and collaborations

ELA



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

^{*} 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.

