**Practices and Capacities**

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| **Maryland State STEM Standards of Practice****(**[**Maryland State STEM Standards of Practice**](http://www.marylandpublicschools.org/MSDE/programs/stem/)**)** | **Scientific and Engineering Practices** **(**[**A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas**](http://www.nap.edu/catalog.php?record_id=13165)**)** | **Standards for Mathematical Practices****(**[**Common Core State Standards Mathematics**](http://mdk12.org/instruction/curriculum/mathematics/index.html)**)** | **Capacities of a Literate Individual** **(**[**Common Core State Standards English Language Arts**](http://mdk12.org/instruction/curriculum/reading/index.html)**)** |
| [ ] Learn and apply rigorous science, technology, engineering, and mathematics content.[ ] Integrate science, technology, engineering, and mathematics content.[ ] Interpret and communicate information from science, technology, engineering, and mathematics.[ ] Engage in inquiry.[ ] Engage in logical reasoning.[ ] Collaborate as a STEM team.[ ] Apply technology strategically. | [ ] Asking questions (for science) and defining problems (for engineering).[ ] Developing and using models.[ ] Planning and carrying out investigations.[ ] Analyzing and interpreting data.[ ] Using mathematics and computational thinking.[ ] Constructing explanations (for science) and designing solutions (for engineering).[ ] Engaging in argument from evidence.[ ] Obtaining, evaluation, and communicating information. | [ ] Make sense of problems and persevere in solving them.[ ] Reason abstractly and quantitatively.[ ] Construct viable arguments and critique the reasoning of others.[ ] Model with mathematics.[ ] Use appropriate tools strategically.[ ] Attend to precision.[ ] Look for and make use of structure.[ ] Look for and express regularity in repeated reasoning. | [ ] They demonstrate independence.[ ] They build strong content knowledge.[ ] They respond to the varying demands of audience, task, purpose, and discipline.[ ] They comprehend as well as critique.[ ] They value evidence.[ ] They use technology and digital media strategically and capably.[ ] They come to understand other perspectives and cultures. |