Relationships and Convergences Found in the Common Core State Standards in Mathematics (practices), Common Core State Standards in ELA/Literacy*(student portraits), and A Framework for K-12 Science Education (science & engineering practices).

These student practices and portraits are grouped in a modified Venn diagram. The letter and number set preceding each phrase denotes the discipline and number designated by the content standards or framework. The Science Framework will be used to guide the production of the Next Generation Science Standards.

Math Science Develop and use models M4. Model with mathematic M1. Make sense of problems \$1. Ask questions & define & persevere in solving them S5. Use mathematics & problems M6. Attend to precision computational thinking S3. Plan & carry out M7. Look for & make use of investigations structure S4. Analyze & interpret data M8. Look for & express E2. Build a strong base of knowledge regularity in repeated through content rich texts reasoning E5. Read, write, and speak grounded in evidence M2. Reason abstractly & quantitatively M3 and E4. Construct viable arguments & critique reasoning of S6. Construct others explanations & desig S7. Engage in argument from evidence solutions S8. Obtain, evaluate & E6. Use technology & communicate digital media information strategically & capably M5. Use appropriate E3. Obtain, synthesize, and report findings tools strategically clearly and effectively in response to task E1.Demonstrate independence in reading complex texts, and writing and speaking about them E7. Come to understand other perspectives & cultures through reading, listening, and collaborations

Sources:

Common Core State Standards for English Language Arts & Literacy* in History/Social Studies, Science, and Technical Subjects, p7. Common Core State Standards for Mathematical Practice p6-8.

A Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas, ES-3 and chapter 3: I-32.