Relationships and Convergences
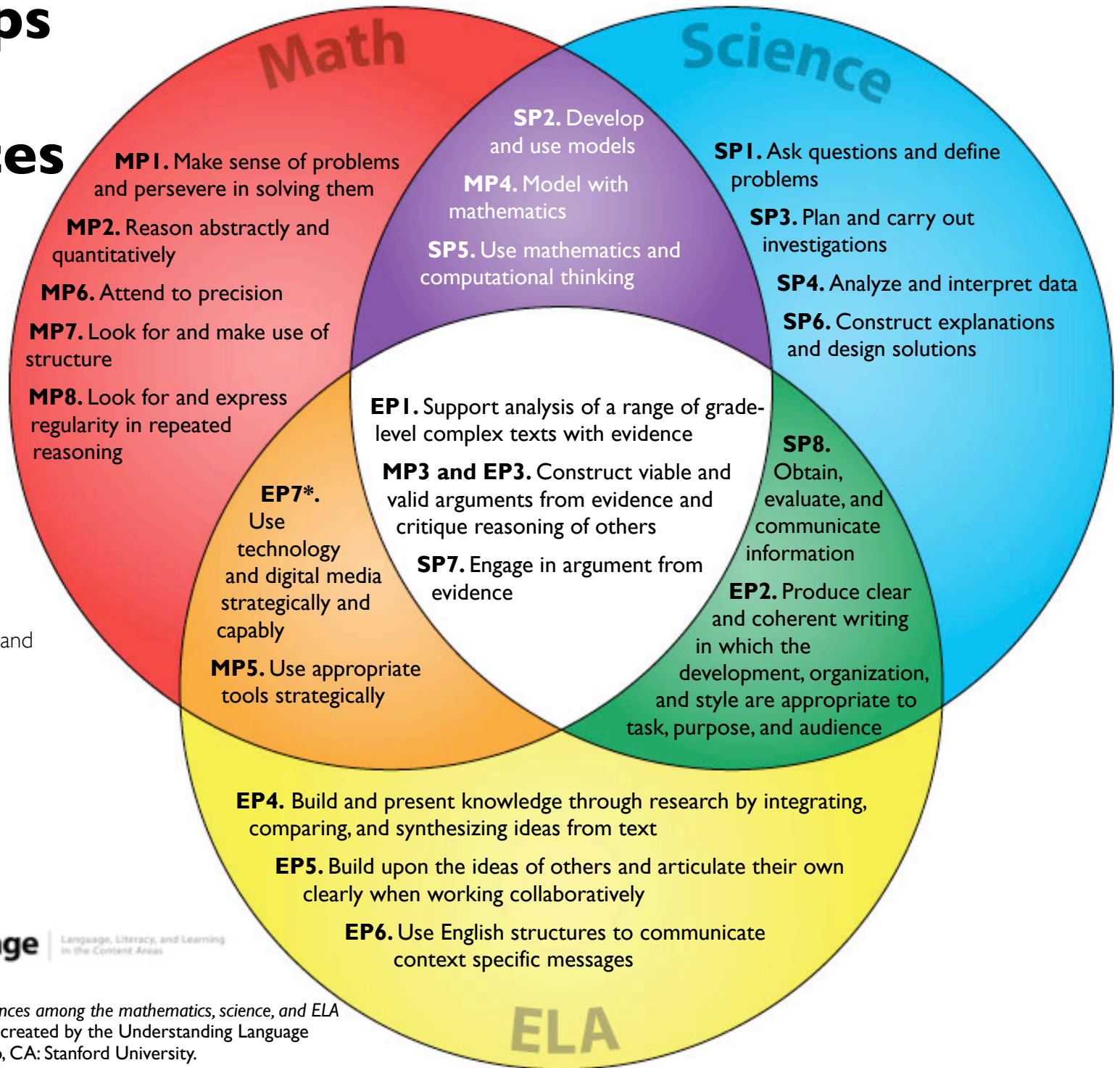
Found in:
1. CCSS for Mathematics (practices)
2a. CCSS for ELA & Literacy (student capacity)
2b. ELPD Framework (ELA "practices")
3. NGSS (science and engineering practices)

Notes:
1. MP1–MP8 represent CCSS Mathematical Practices (p. 6–8).
2. SP1–SP8 represent NGSS Science and Engineering Practices.
3. EP1–EP6 represent CCSS for ELA "Practices" as defined by the ELPD Framework (p. 11).
4. EP7* represents CCSS for ELA student "capacity" (p. 7).

Stanford
GRADUATE SCHOOL OF
EDUCATION

Understanding **Language** | Language, Literacy, and Learning in the Content Areas

Math

MP1. Make sense of problems and persevere in solving them

MP2. Reason abstractly and quantitatively

MP6. Attend to precision

MP7. Look for and make use of structure

MP8. Look for and express regularity in repeated reasoning

Science

SP1. Ask questions and define problems

SP3. Plan and carry out investigations

SP4. Analyze and interpret data

SP6. Construct explanations and design solutions

Math / Science overlap

SP2. Develop and use models

MP4. Model with mathematics

SP5. Use mathematics and computational thinking

Center

EP1. Support analysis of a range of grade-level complex texts with evidence

MP3 and EP3. Construct viable and valid arguments from evidence and critique reasoning of others

SP7. Engage in argument from evidence

Math / ELA overlap

EP7*. Use technology and digital media strategically and capably

MP5. Use appropriate tools strategically

Science / ELA overlap

SP8. Obtain, evaluate, and communicate information

EP2. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience

ELA

EP4. Build and present knowledge through research by integrating, comparing, and synthesizing ideas from text

EP5. Build upon the ideas of others and articulate their own clearly when working collaboratively

EP6. Use English structures to communicate context specific messages