

Common Core State Standards 2010

The Common Core State Standards (www.corestandards.org) require students to develop and employ key cognitive strategies in order to become college and career ready by the end of high school.

Mathematics Standards

The Standards for Mathematical Practice (described in an introduction to the mathematics content standards) specify the following "varieties of expertise that mathematics educators at all levels should seek to develop in their students" (www.corestandards.org/the-standards/mathematics/introduction/standards-for-mathematical-practice):

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Apply mathematics to solve problems arising in everyday life, society, and the workplace. (Model with mathematics)
5. Use appropriate tools strategically.
6. Communicate meaning of numerical answers clearly and precisely. (Attend to precision)
7. Recognize and make use of pattern or structure.
8. Look for and express regularity in repeated reasoning.

English Language Arts Standards

The Common Core State Standards for English Language Arts and Literacy in History/Social Studies, Science, and Technical Subjects specify as students "advance through the grades and master the standards in reading, writing, speaking, listening, and language," they are able to exhibit the following abilities as a literate individual (these are not the standards, but the portrait of a student who has met the standards as described in the introduction)

http://www.corestandards.org/assets/CCSSI_ELA%20Standards.pdf:

1. Demonstrate independence.
2. Build strong content knowledge.
3. Respond to the varying demands of audience, task, purpose, and discipline.
4. Comprehend as well as critique.
5. Evaluate relevant evidence.
6. Use technology and digital media strategically and capably.
7. Appreciate and understand other perspectives and cultures.