



# Prince George's County Public Schools

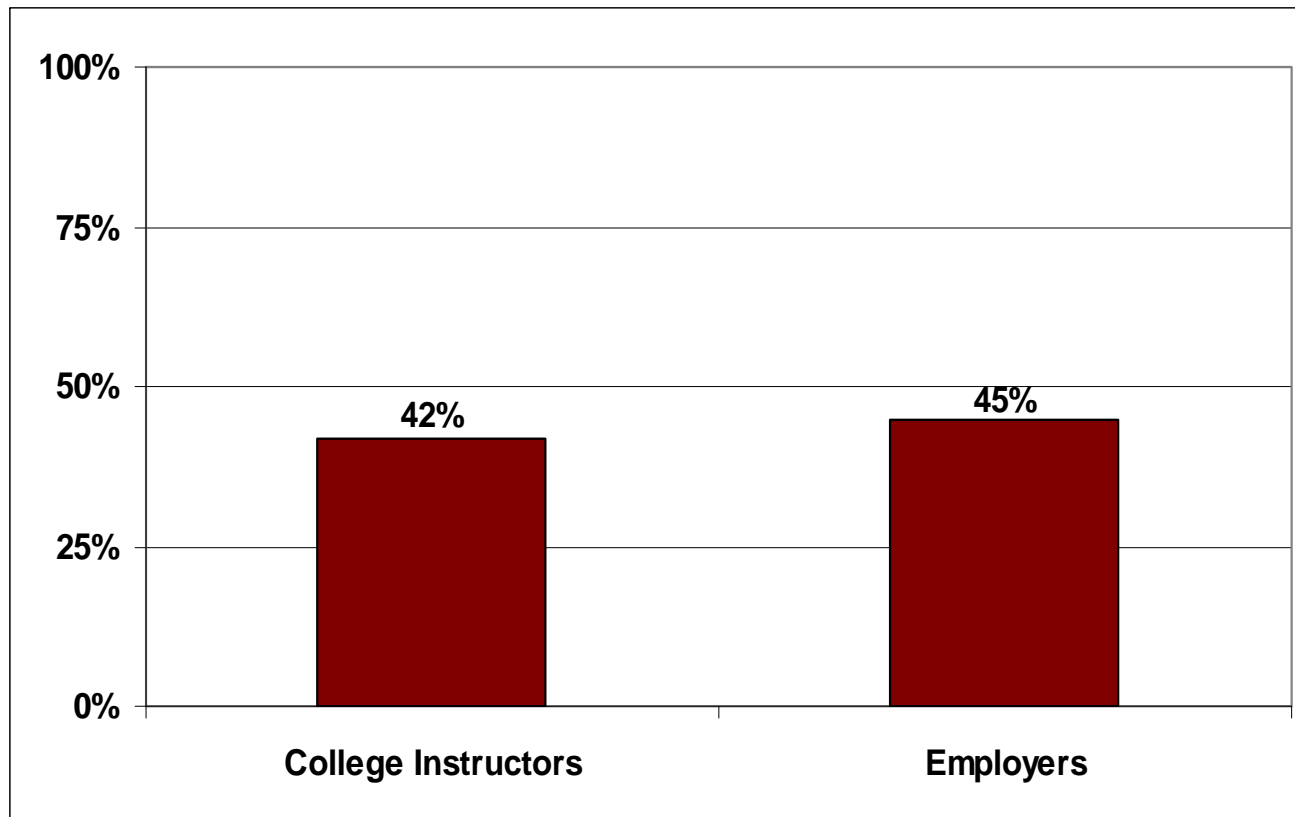
Shifts to Common Core

Gladys Whitehead, Director of  
Curriculum and Instruction

A set of clear, consistent, internationally-benchmarked K-12 standards in English Language Arts and Literacy in Social Studies, Science and Technical Subjects and Mathematics that will provide a clear and consistent framework to prepare our students to be college and career ready.

# College Instructors and Employers Say Graduates Are Not Prepared for College and Work

Average estimated proportions of recent high school graduates who are not prepared



*Source: Peter D. Hart Research Associates/Public Opinion Strategies, Rising to the Challenge: Are High School Graduates Prepared for College and Work? prepared for Achieve, Inc., 2005.*

# What Are We Doing Now?

- RELA
  - Partnership with Institute for Learning (IFL)
  - New resources for Secondary
    - New Common Core anthology for 6-8
    - New instructional units focusing on writing argument and literary analysis, 6-12
  - Increased writing as a part of the curriculum
  - Units of novel study
  - Increased complexity of text
  - Greater emphasis on grammar
  - Emphasis on informational text
  - Emphasis on text based evidence to support answers

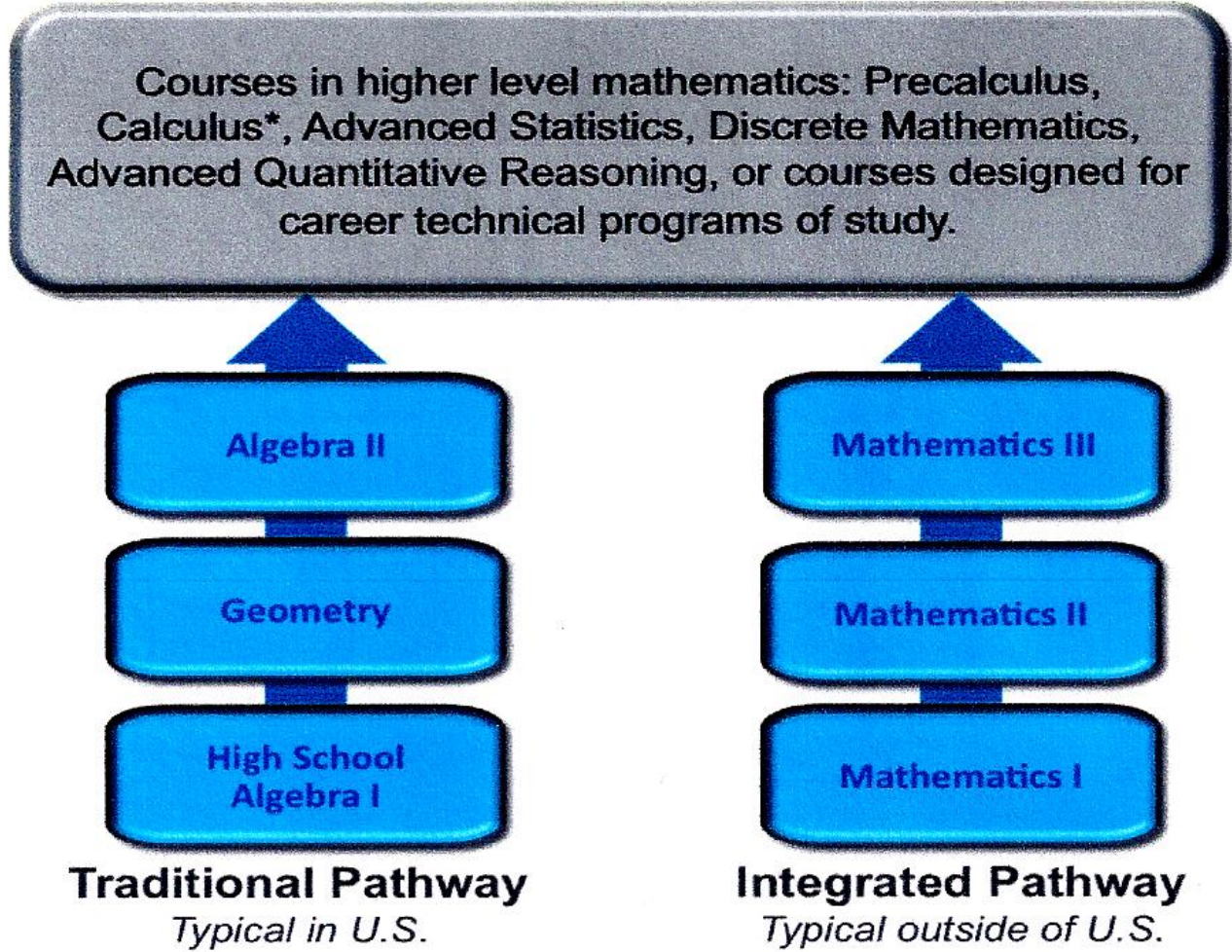
New Assessment Questions 2015  
Read "To Kill A Mocking Bird"

Select a character from the novel and explain in an essay of at least 1,250 words, how his/her life was influenced by one other character in the town of Maycomb.

Support your response with ideas and viewpoints which are fully developed through accurate and detailed references to the text.

# What Are We Doing Now?

- Mathematics
  - Focus on deeper understanding of fewer topics within the grade level, with the expectation of mastery.
  - New textbook resources for 6-12
  - New adoption for K-4
- Focus on foundational math skills and application in novel real-world situations
- A return to depth as opposed to breadth
- Increased focus on justifying and presenting results and methods
- Re-ordering of math content to reflect research-based path to college and career readiness




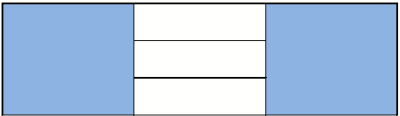
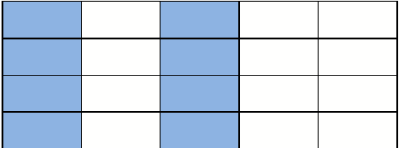
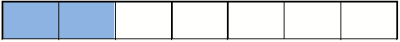
# New Courses for Next year

- Math 6 CC and Honors CC
- Math 7 CC and Honors CC
- Math 8 CC and Honors CC
- Algebra 1 CC
- Geometry CC
- Algebra 2 CC(2014-2015)
- Advanced Algebra
- Supports to Bridge the Gap
- Summer School Bridge Program for Algebra 1
- Revision of MSA Support courses to CC support courses



# New Assessment Questions Getting Ready for 2015

State whether each figure is  $\frac{2}{5}$  shaded. (Grade 3)

	Yes	No
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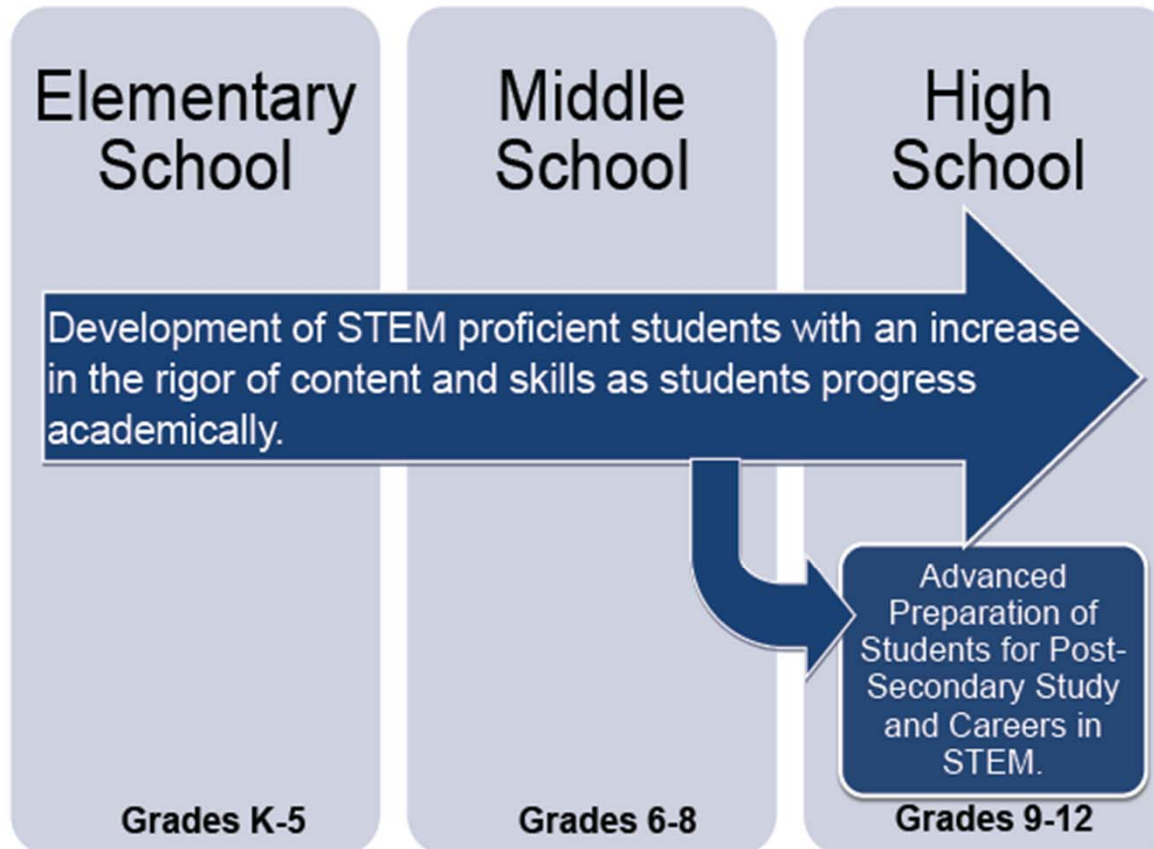
# What Are We Doing Now?

- Social Studies
  - Strengthening current units to support literacy skills for accessing text resources and writing
  - Developing assessment tools aligned to curriculum to drive instructional units for growth measures.
  - Support cross units with ESOL and Special Education

# What Are We Doing Now?

- Science
  - Partnerships with NASA, Lockheed Martin and others to support STEM
  - New elective courses for middle schools
  - Aligning curriculum to the new science standards
  - Developing (STEAM) Projects across all content areas
  - Integrating literacy across Science as well as writing
  - <http://www1.pgcps.org/science/index.aspx?id=10036>

## STEM Education Pipeline



# FY13 PGCPS STEM Initiatives & Programs

PROGRAMS	ELEMENTARY	MIDDLE	HIGH
RTTT STEM Grant	N/A	3	4
Maryland Science Olympiad	4- Virtual Pilot Schools	0	1
MSDE Elementary STEM Grant( EIE) Grades 1 and 2	10 Pilot	N/A	N/A
MSP-NSF Grant- Teacher PDs, SSIs, BSU STEM and Dual Enrollment	All (Gr 3-5)	all	all
PLTW/GWTT	N/A	4- GWTT	3
SSR STEM Focused Academies	N/A	N/A	12
PGASF- March 8-10 at PGCC	6 <sup>th</sup> Grades	all	all
KFS STEM Fair-May 17-18, ERHS	All-Grades 3-5	N/A	N/A
IBM STEM Young Explorers	25 Units in 20+ schools in Headstart and K-1 13		

# FY12 PGCPS STEM Initiatives & Programs Con't



PROGRAMS	ELEMENTARY	MIDDLE	HIGH
M.S Young Explorers STEM Enrichment Opportunity- 4 weeks, summer sites, with Eduserc as our STEM Partner	Rising 6 <sup>th</sup> graders	N/A	N/A
SSR, Rising 9 <sup>th</sup> graders( current 8 <sup>th</sup> graders) HSA Biology Summer Enrichment Program- 4 weeks, 4 sites	N/A	All feeder middle schools to selected SSR Academies	N/A
Aquatic Robotics-Sea Perch	N/A	16	N/A
Cyberpatriots & Cybersecurity Competitions	N/A	few	4
UM-OHHS STEM	N/A	N/A	1
VESA NOAA	N/A	2	16
Owens Science Center- Various STEM Classes for all levels	Sign up	Sign Up	AP & HSA- Sign up

# FY12 PGCPS STEM Initiatives & Programs Con't



PROGRAMS	ELEMENTARY	MIDDLE	HIGH
DES- Accokeek STEM Project	Gr 1-5	N/A	N/A
Forth Meade Alliance- Techmania	N/A	N/A	60 -9 <sup>th</sup> Graders
Defense Information Systems Agency (DISA)	N/A	TBD	TBD
Robotics	few	few	few
Maryland Engineering and Science Academy (MESA)	few	few	few
STEM Modules in Curriculum Documents	Grades 3-5	Grades 7 and 8	Grades 9 and 10, RTTT STEM Modules in 7 schools

# STEM Practices Compliment Science & Mathematics Education

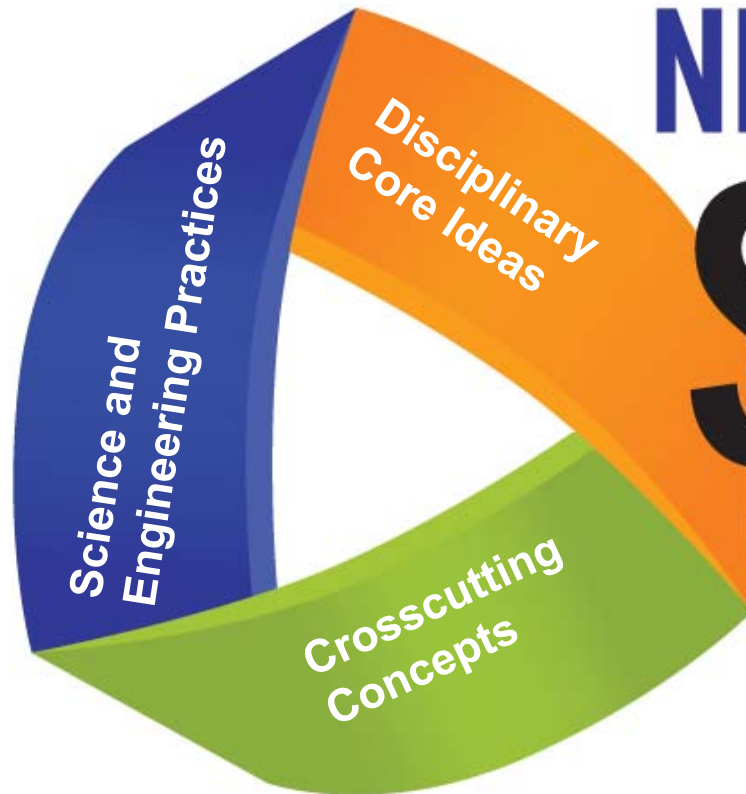
## *Standards for Mathematical Practice*

- **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**

## **STEM Standards Of Practice**

- **Integrate STEM Content**
- **Engage in Inquiry**
- **Engage in Logical Reasoning**
- **Collaborate as a STEM Team**
- **Apply Technology Appropriately**
- **Interpret and Communicate STEM Information**



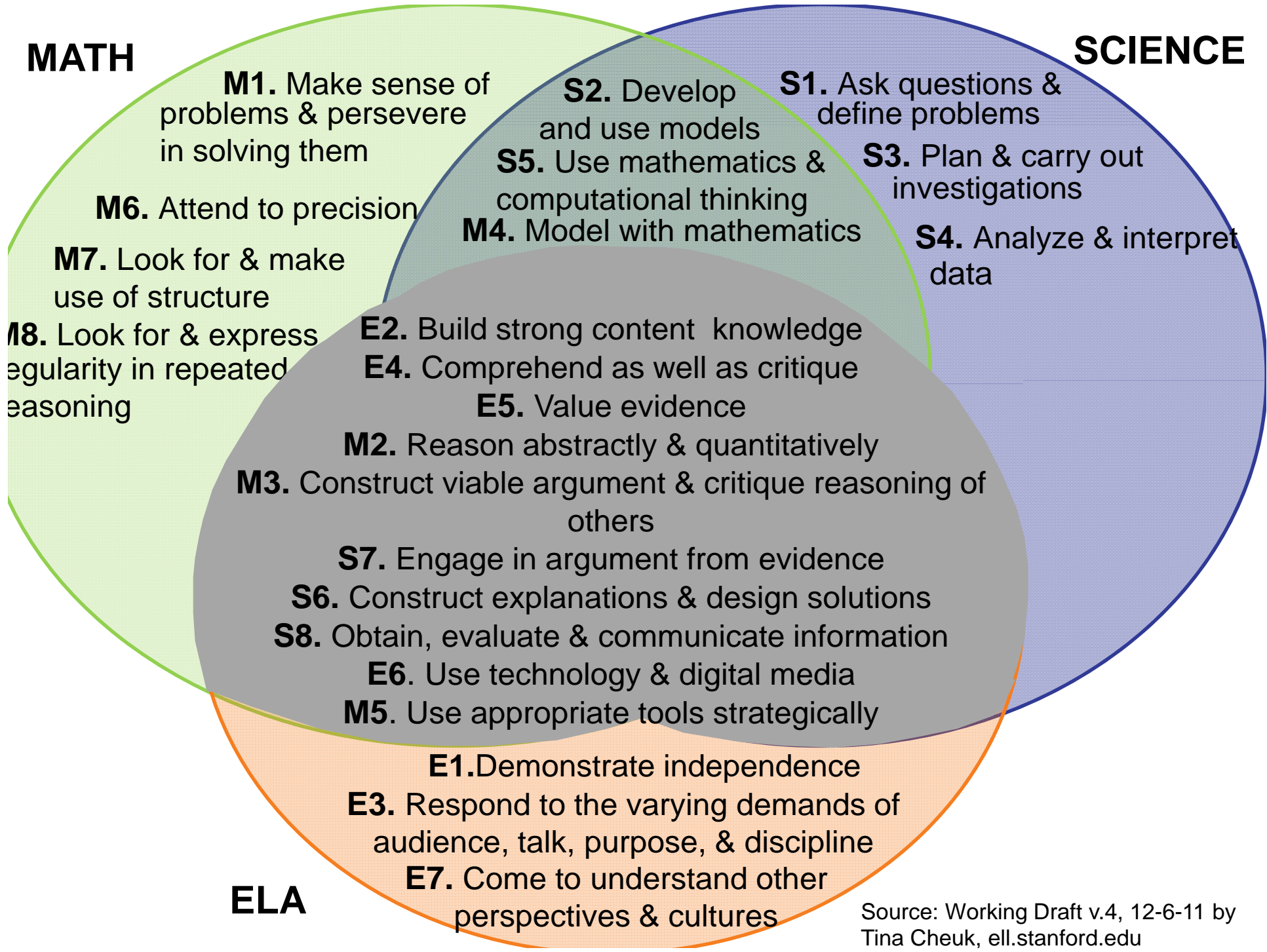


# NEXT GENERATION SCIENCE STANDARDS

For States, By States

# MATH

# SCIENCE



# ELA

Source: Working Draft v.4, 12-6-11 by Tina Cheuk, ell.stanford.edu

# Stay Updated

- [www1.pgcps.org/commoncore](http://www1.pgcps.org/commoncore)
- Links to Information
  - MSDE
  - National PTA
- Resources for Teachers, Parents, Administrators