



Moving Georgia's Standards Forward

Jeremy Peacock
President Elect

Our Organization



- *“excellent science teaching for the students of Georgia”*
 - Connect
 - Inform
 - Advocate
- 1100 K-16 & Informal Science Educators and Leaders
- 12 Districts Statewide



Georgia's STEM Economy



- 11 of Georgia's "Key Industries" are STEM Industries¹
- Georgia Companies Face Major Challenges in Hiring Our Graduates
- 2008-2018 Job Growth²
 - STEM: 17%
 - Others: 9.8%



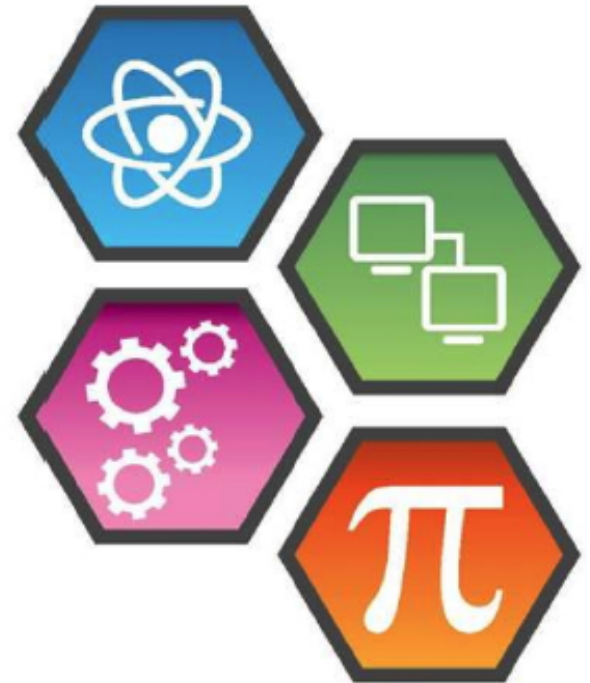
¹Source: Georgia Department of Economic Development
<http://www.georgia.org/industries/>

²Source: US Department of Commerce
http://www.esa.doc.gov/sites/default/files/reports/documents/stemfinaljuly14_1.pdf

STEM Education Goals



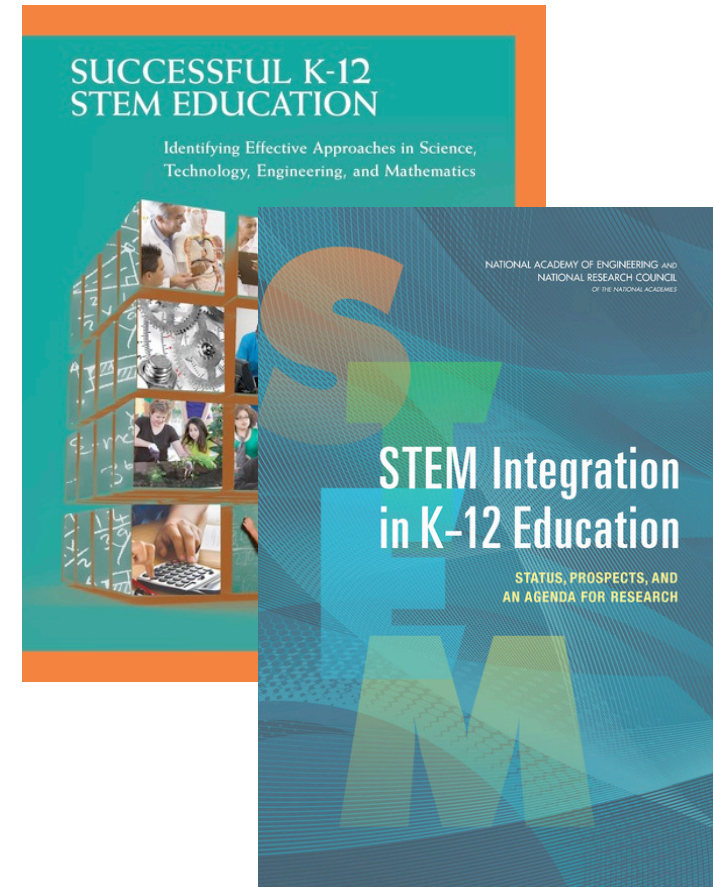
- *“Lead the way in STEM fields”*
 - Dr. Susan Andrews, Deputy Superintendent, GaDOE
- Rigorous Preparation for ALL Students
- Allow Student to Access STEM Careers
 - Technicians, Coders, Scientists, Engineers, etc.



STEM Curricula Should...



- Be Rigorous³
- Be Articulated K-12³
- Be Aligned Across Disciplines³
- Focus on Core Concepts in Each Discipline³
- Give Science Equal Importance Relative to Reading & Mathematics³
- Explicitly Integrate STEM Disciplines⁴



Sources: National Research Council

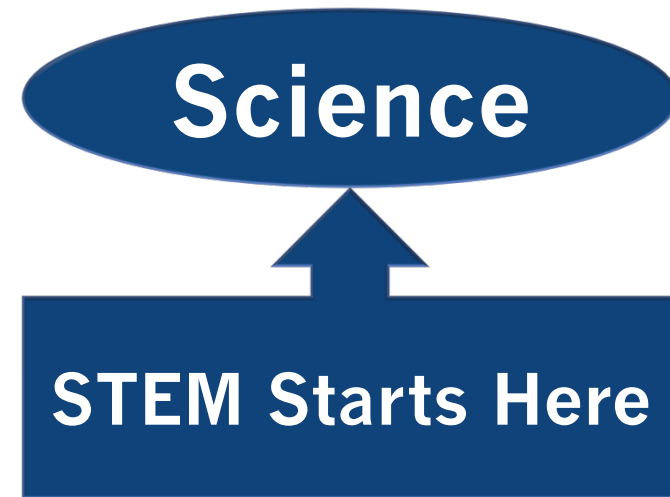
³http://www.nap.edu/catalog.php?record_id=13158

⁴http://www.nap.edu/catalog.php?record_id=18612

Setting the Standard for STEM in Georgia



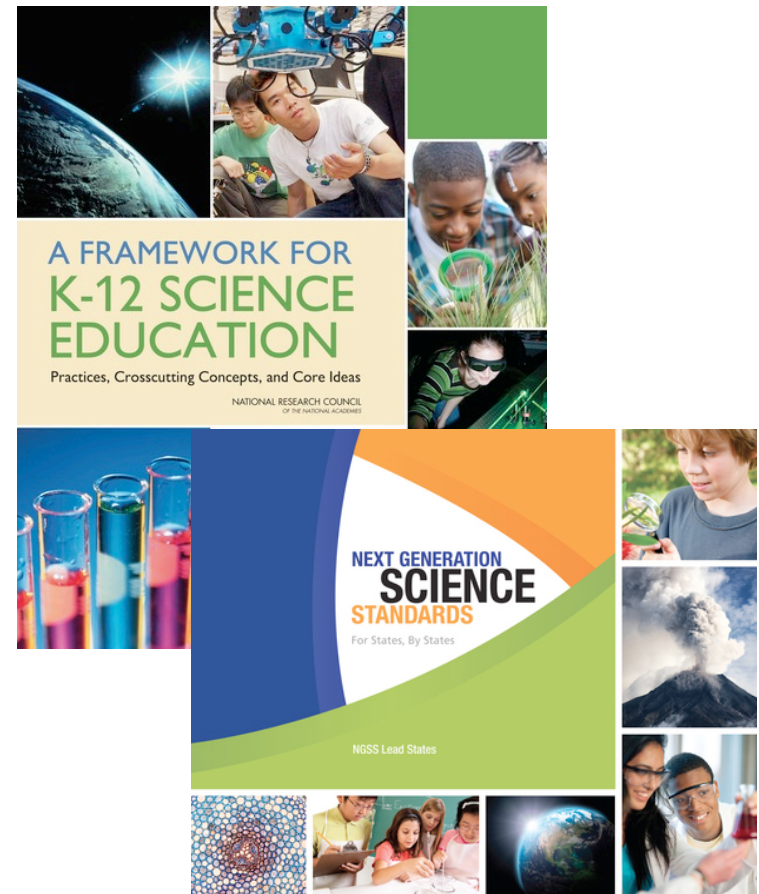
- Rigorous & Accessible
- Nationally & Globally Competitive
- Value Educators' & Other Stakeholders' Voices
- Build on Research, Practice, and Collaboration
- Support Effective Instruction for *ALL* Students
- Build & Reinforce Across Disciplines



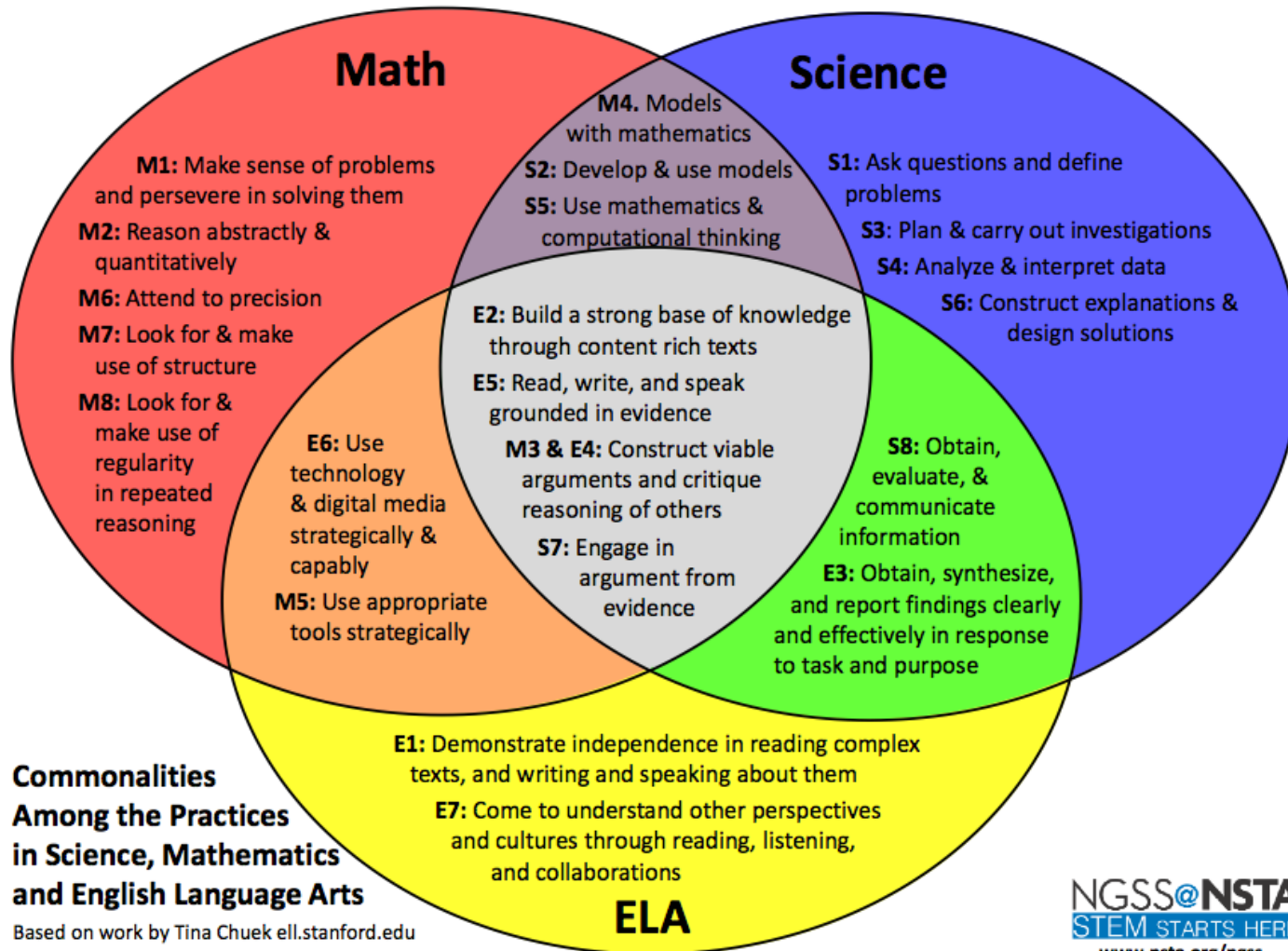
New Directions for the Science GPS



- Current Science
- Current Research on Science Learning
- College & Career Readiness
- Foundation for Excellent STEM Education
 - Math & ELA Connections
 - Integration of Engineering



Mutually Supportive Standards



Moving Forward to Support Georgia Students



- Maintain Rigor of CCGPS in Math & ELA/Literacy
- Revise Science GPS to Align to the *Framework* & NGSS
- Support Teachers
 - Resources
 - Collaboration
 - Professional Learning
- Prepare Georgia Students for Our Present & Future Economy





GEORGIA
SCIENCE
TEACHERS
ASSOCIATION

Thank you.