

Questions About Mathematics You Are Sure To Be Asked

New Curriculum Directors Conference
September 20, 2016





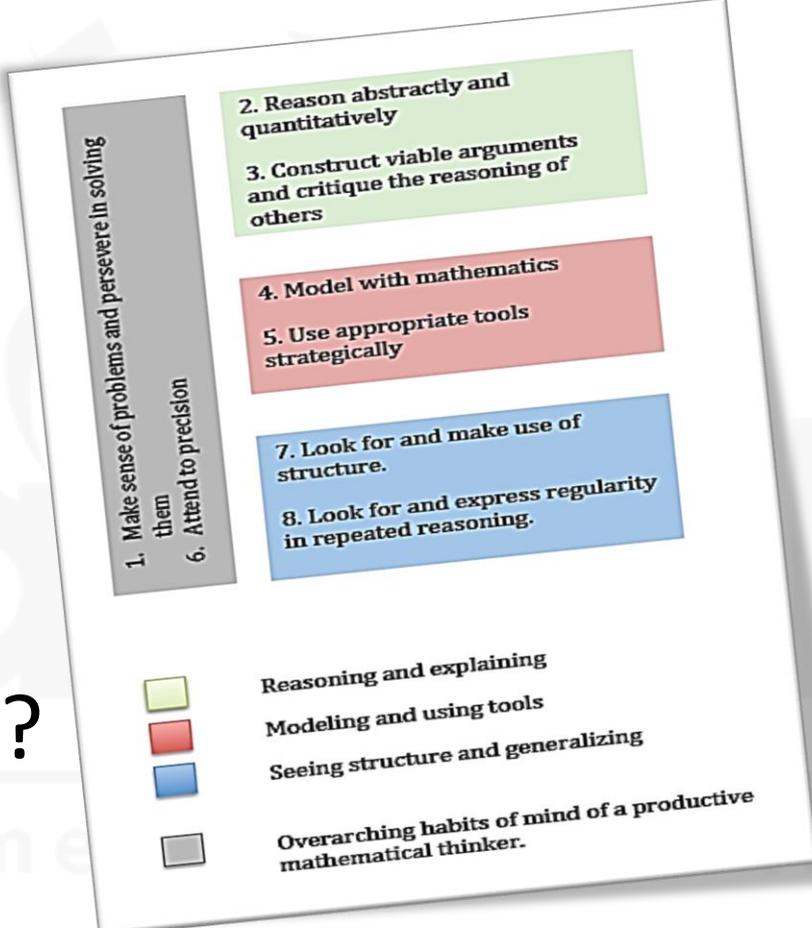
Richard Woods,
Georgia's School Superintendent
"Educating Georgia's Future"
gaode.org



**...and of course answers
to those questions**

Georgia Department of Education

➤ I'm not a former mathematics teacher. What should I look for when observing mathematics teacher classrooms?



1. Make sense of problems and persevere in solving them
6. Attend to precision

2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others

4. Model with mathematics
5. Use appropriate tools strategically

7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Reasoning and explaining
Modeling and using tools
Seeing structure and generalizing
Overarching habits of mind of a productive mathematical thinker.

Libraries

Content Areas

English Language Arts

Mathematics

Science

Social Studies

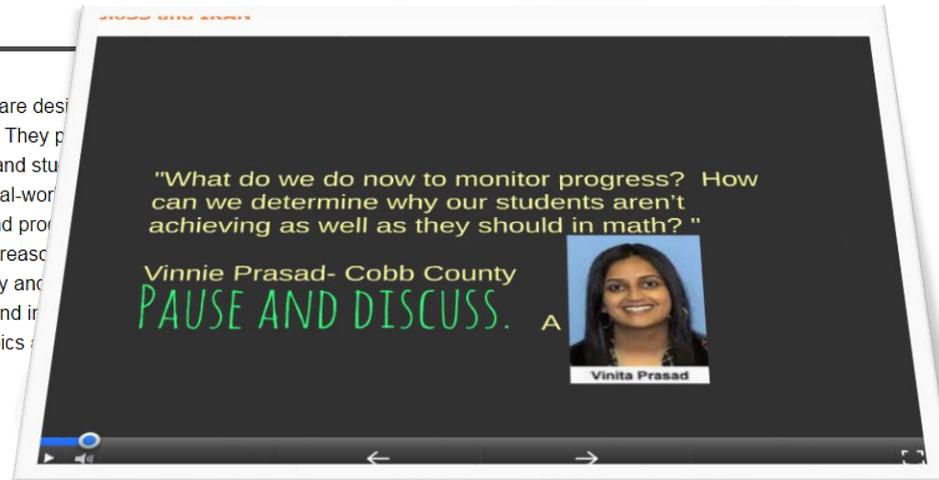
Fine Arts

Health & Physical Education

World Languages & Global Initiatives

Mathematics

The Georgia Mathematics standards are designed to provide students with the concepts, skills, and problem solving. They provide a rigorous curriculum, instruction, assessment, and student learning. The standards encourage students to reason mathematically, use mathematical arguments both formally and informally, and make connections among mathematical topics.



➤ When teachers ask about diagnostic tools, what can I tell them?

➤ Are there resources available for mathematics teachers?



Richard Woods,
Georgia's School Superintendent
"Educating Georgia's Future"
gaDOE.org

Georgia Standards of Excellence
Georgia Standards of Excellence

BROWSE MATH STANDARDS

Mathematics Georgia Standards of Excellence (GSE)

Highlights

- Looking Inside Mathematics Classrooms Video

Georgia Mathematics Teacher Wiki Forums

Visit the Georgia Mathematics Teacher Wiki Forums (No login/password required)

- Elementary School
- Middle School
- High School

Subscribe to GaDOE Mathematics Emails

Join the Mathematics Email List service for updates and announcements by sending a blank email to one of the following addresses:

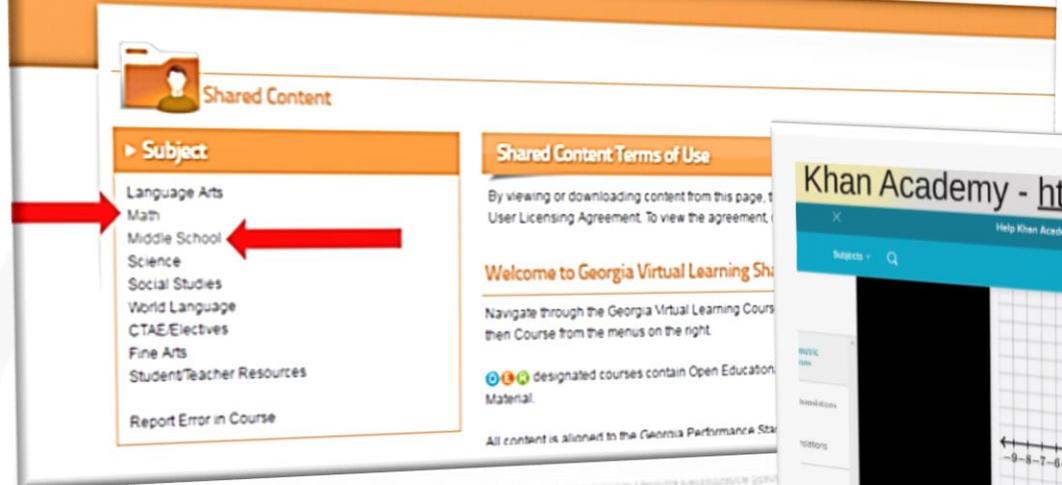
Mathematics K-5
join-mathematics-k-5@list.doe.k12.ga.us

Mathematics 6-8
join-mathematics-6-8@list.doe.k12.ga.us

Mathematics 9-12
join-mathematics-9-12@list.doe.k12.ga.us

Standards Document

- K-5 Standards
- Mathematics Teacher Support
 - Georgia Mathematics K-5 Teacher Wiki Forum
 - Join the Georgia Mathematics K-5 Teacher Email List by sending a blank email to join-mathematics-k-5@list.doe.k12.ga.us
 - Mathematics Effective Instructional Practices Guide
 - Mathematics Glossary
- Mathematics Professional Learning
 - Looking Inside Mathematics Classrooms Video
 - "What does it look like when you implement a framework ask?" Classroom Videos from the Units (Coming Soon)
 - Global Strategy Stage (Gloss) and Individual Knowledge Assessment of Number (IKAN) Prezi
 - Number Talks Webinar
 - Formative Assessment Lessons/Classroom Challenge Tasks Webinar



Shared Content

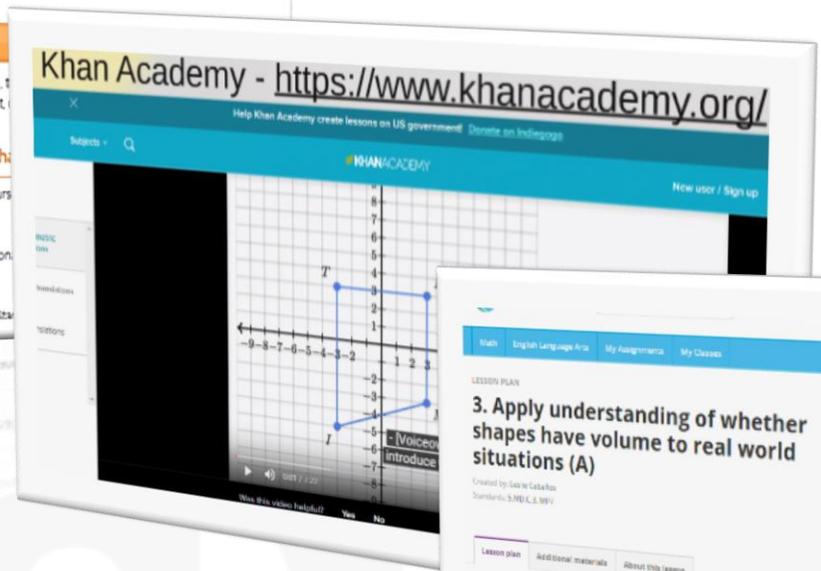
Subject

- Language Arts
- Math
- Middle School
- Science
- Social Studies
- World Language
- CTAE/Electives
- Fine Arts
- Student/Teacher Resources

Report Error in Course

Shared Content Terms of Use

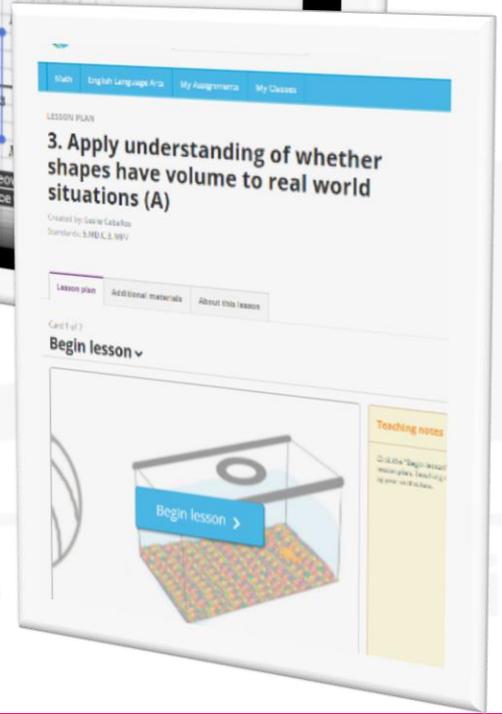
Welcome to Georgia Virtual Learning Shared Content



Khan Academy - <https://www.khanacademy.org/>

Math

3. Apply understanding of whether shapes have volume to real world situations (A)



3. Apply understanding of whether shapes have volume to real world situations (A)

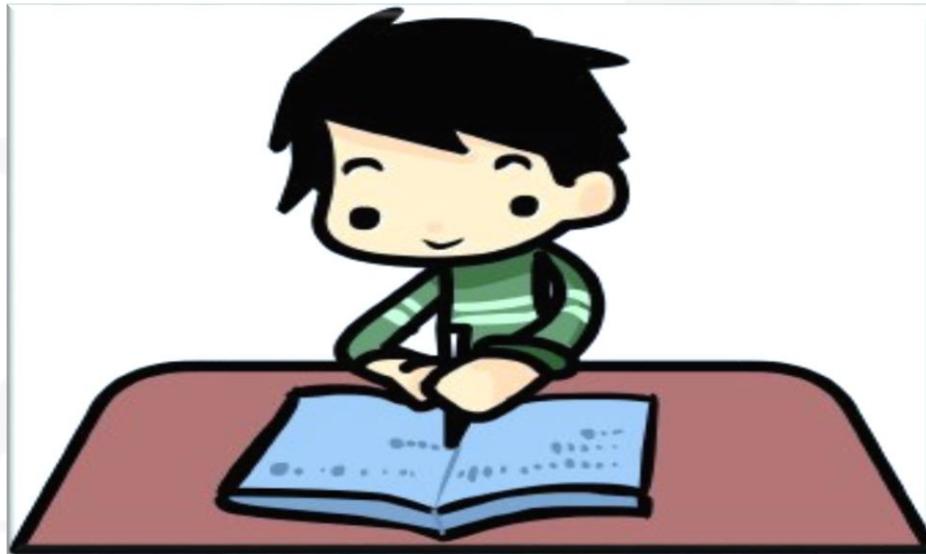
Begin lesson

➤ Are there mathematics resources available for parents?

- Can districts choose to accelerate elementary and/or middle school students in mathematics?



➤ What are the test-out options in mathematics?



- Are there alternative high school mathematics sequence options for students with disabilities?

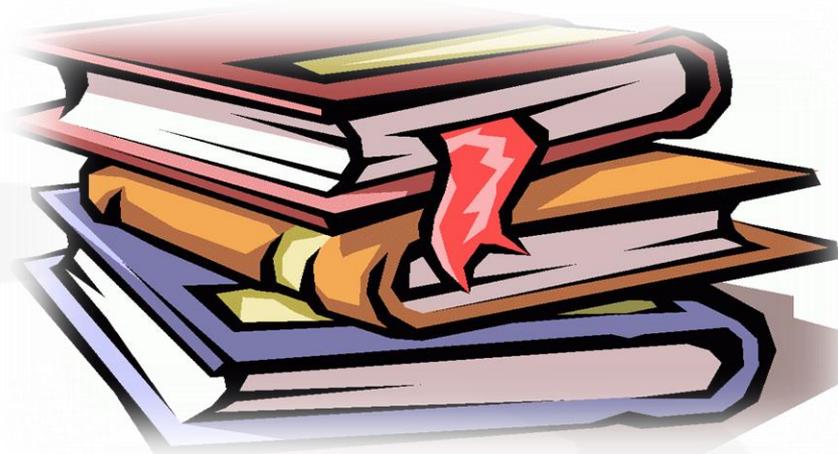




- Are there state requirements for enrollment in Foundations of Algebra?
- Is Foundations of Algebra an acceptable fourth core option?



- What are the determining factors in choosing fourth mathematics course options?



- At what point can students take advantage of MOWR mathematics?
- Can we substitute MOWR College Algebra for Algebra II or Advanced Algebra?

- Where are the new MOWR mathematics codes?
- Why aren't the MOWR courses on the list of State Funded K-8 Subjects and 9-12 Courses?





Richard Woods,
Georgia's School Superintendent
"Educating Georgia's Future"
gaDOE.org

- Is the new College Readiness Mathematics course approved for USG admissions?
- Is the course included on the HOPE Rigor List?
- Will NCAA accept College Readiness Mathematics?
- Will there be professional learning opportunities for College Readiness Mathematics teachers?

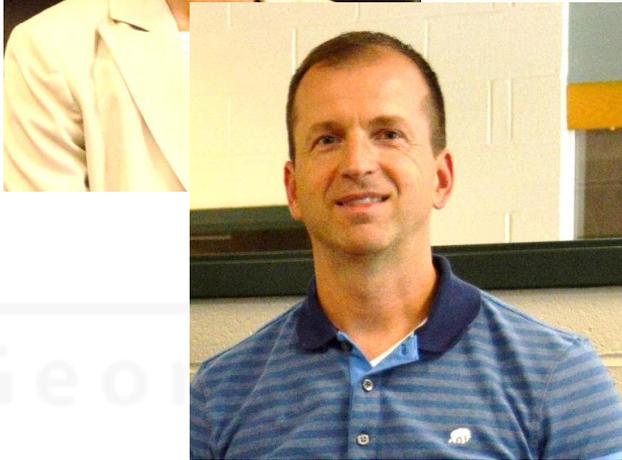


Georgia Department of Education

When I have questions, who can I ask?



Sandi Woodall
swoodall@doe.k12.ga.us



Brooke Kline
bkline@doe.k12.ga.us

Your RESA Mathematics
Mentor



Thank You!

Georgia Department of Education