

Common Core Georgia Performance Standards Coordinate Algebra (CCGPS CA)

Walch Education



Coordinate Algebra

Walch Background

- Focused on standards-based, tailored mathematics materials
- Developed Academic Support Programs and Math 1, 2, and 3 (including Support and Accelerated) with, and for, Georgia districts



Team Background

- Product Development Team includes many former teachers with expertise in mathematics and best practice pedagogy
- Joyce Hale, lead developer and Product Manager, taught high school mathematics
- Rebecca Johnson, Regional Manager, was a Georgia high school math teacher and is a Ed.D. candidate in Curriculum and Instruction



What Guides Our Work?

- Georgia Frameworks and Curriculum Map for CCGPS Coordinate Algebra
- Input from teachers, math leaders, and administrators
- Research into effective mathematics instruction



- We try to design materials as good teachers do when they have the time.
 - Core materials with plenty of choices
 - Background on standards and content
 - Options for remediation and enrichment
 - Variety to address a range of learners
 - Technology to enhance engagement and efficiency



Reaction to Our GA Materials

- “It is very user-friendly and has lots of resources for both students and teachers.”
–Bibb County math teacher
- “...the best aligned materials and useful materials I’ve seen in a long time.”
–Floyd County math teacher



- “I like the station activities, the Student Resource Books, the essential questions, words to know, and the coaching questions, which help walk students through the learning tasks.”
–Clayton County Math teacher

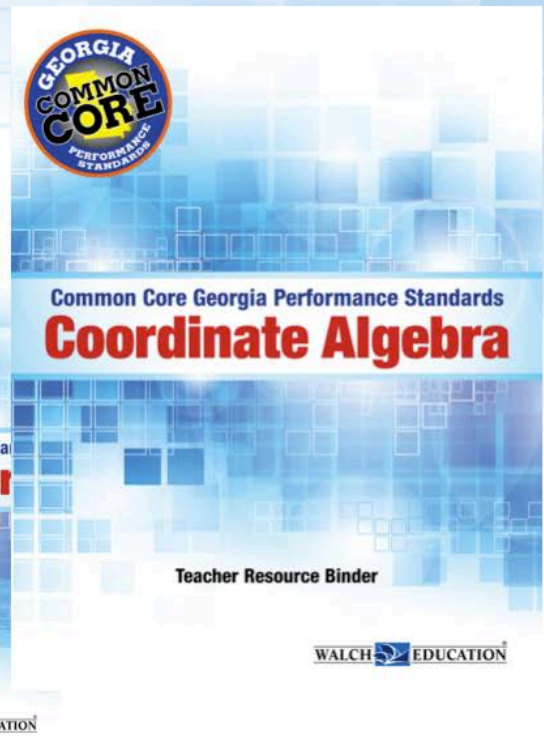
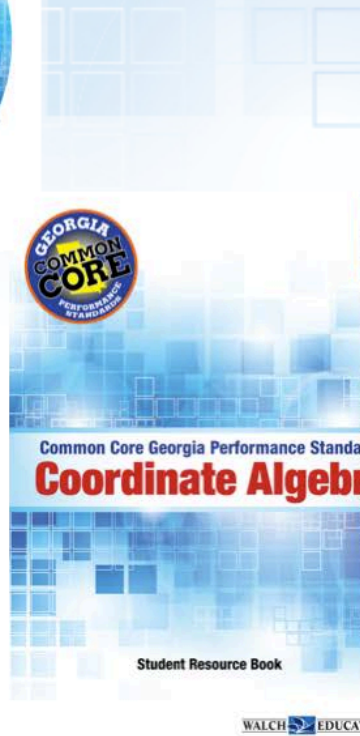
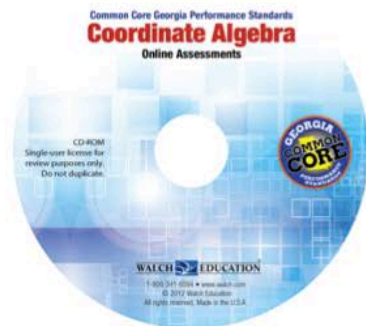
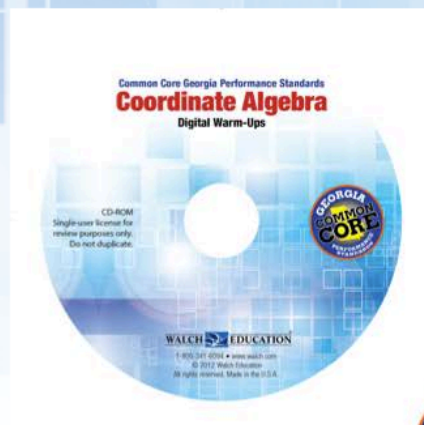
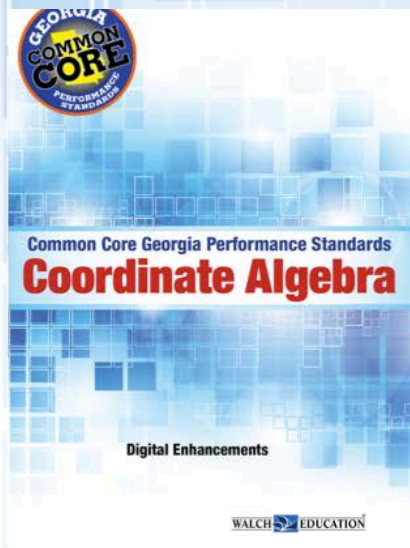


CCGPS CA Program Components

- Teacher Resource Binder (TRB) with reproducible student worksheets
 - 2 binders or digital PDF
- Student Resource Book (SRB) hard cover
- Digital Enhancements
 - Online assessments (pre, progress, and unit)
 - PPT Warm-Ups with video clips
 - PPT Instruction with interactive applets



The Program Components



Coordinate Algebra

Coordinate Algebra Units

Unit 1: Relationships Between Quantities

Unit 2: Reasoning with Equations and Inequalities

Unit 3: Linear and Exponential Functions

Unit 4: Describing Data

Unit 5: Transformations in the Coordinate Plane

Unit 6: Connecting Algebra and Geometry
Through Coordinates



Units, Lessons, Sub-lessons

- 6 Units
- 24 Lessons
- 59 Sub-lessons (1–3 days each)



Lesson Components

- Pre-Assessment
- CCGPS Standards
- Essential Questions
- Words to Know
- Recommended Resources
- Progress Assessment



Sub-lesson Components

- Warm-Up and Debrief
- Introduction, Key Concepts, Common Errors and Misconceptions
- Guided Practice with 3–5 illustrative examples
- Problem-based Task and Coaching Questions
- Independent Practice



At the End of Each Unit:

- Stations Activities: a series of 4 or 5 small group activities that students move through. Includes notes for teacher-led debrief to synthesize the experiences.
- Unit Assessments, including multiple choice and open response items to document achievement.



Student Resource Book

- Not intended for daily instruction; value-added for homework, practice, review
- Recaps Standards, Essential Questions, Words to Know, and Key Concepts
- 3–5 examples with step-by-step solutions
- Additional problems for homework or review
- Selected answers in the back



Digital Enhancements

- Online assessments
 - Practice for new state and national online assessments
 - Immediate feedback via e-mailed scores sent to student and teacher
 - Ability to review errors



- PowerPoint Warm-Ups
 - Warm-Up problem for each sub-lesson
 - Presented in PPT for easy projection
 - Includes brief video clips to engage students as they enter class
 - Provides debrief notes



- PowerPoint Instruction
 - For each sub-lesson
 - Introduction and Key Concepts
 - Presented in PPT for easy projection
 - Two guided practice examples illustrated with an applet (animated visual) to illuminate the concept



- PowerPoint Instruction can be used...
 - By teachers for review/refresher before instruction
 - During class as a presentation
 - For students who miss class, for review or make-up work
 - To post for parents to follow course topics and activities online



Purchase Options

- Teacher Resource Binder (TRB) – everything needed to teach CCGPS Coordinate Algebra
- Enhanced Teacher Resource Binder – TRB plus enhanced PPT Warm-Ups and Instruction
- Student Resource Books



- Online assessments – annual subscription
- PPT warm-ups with video clips to complement another program
- PPT instruction with applets to complement another program
- MIX and MATCH TRB and SRB units to fill gaps and complement another program



Thanks for your time
and your interest in Walch.

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