

# 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



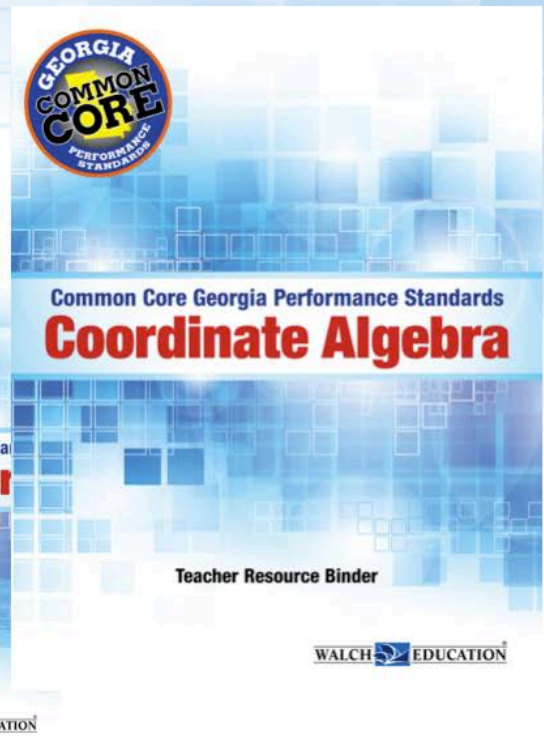
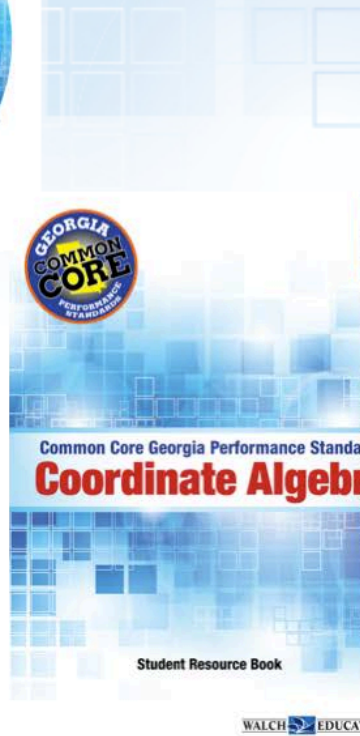
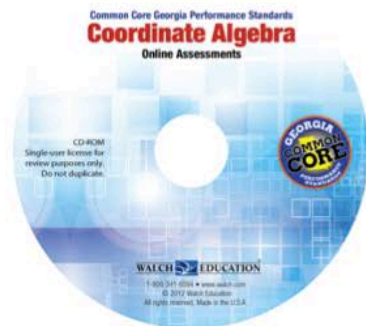
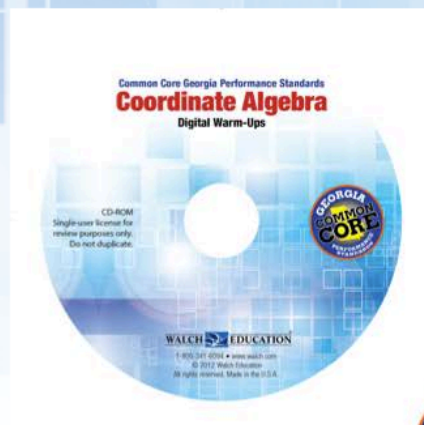
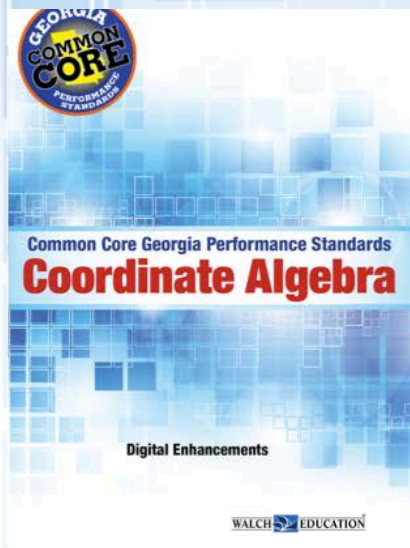
# CCGPS CA Program Components

- 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.

Al Noyes, President

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