



Committee of the Whole
July 10, 2023
Board of Education Meeting



DeKalb County
School District

K-12 MATHEMATICS

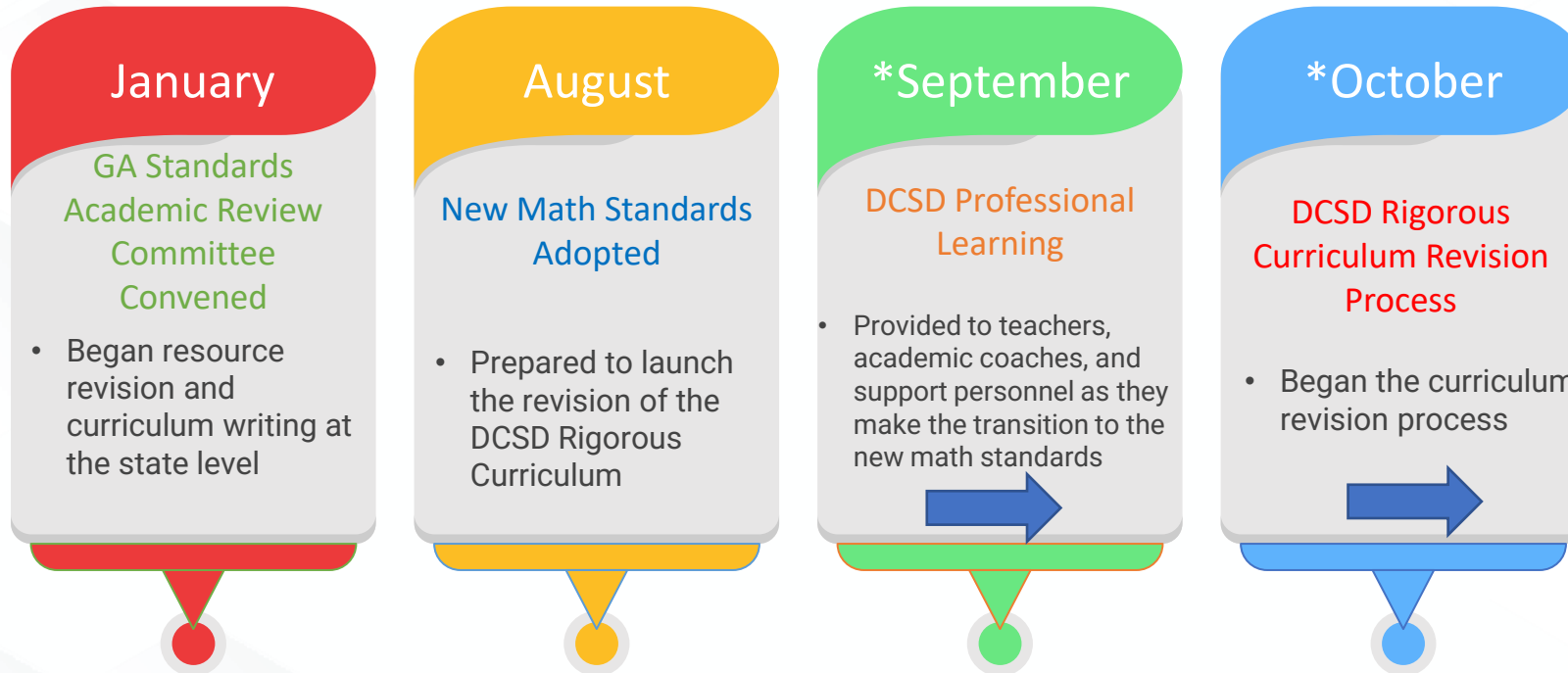
DCSD's Mathematics Journey

Summary of Changes

- Reduction in Standards
- Introduction of Multiple Pathways for Success
- Utilizing Mathematical Reasoning and Mathematical Modeling

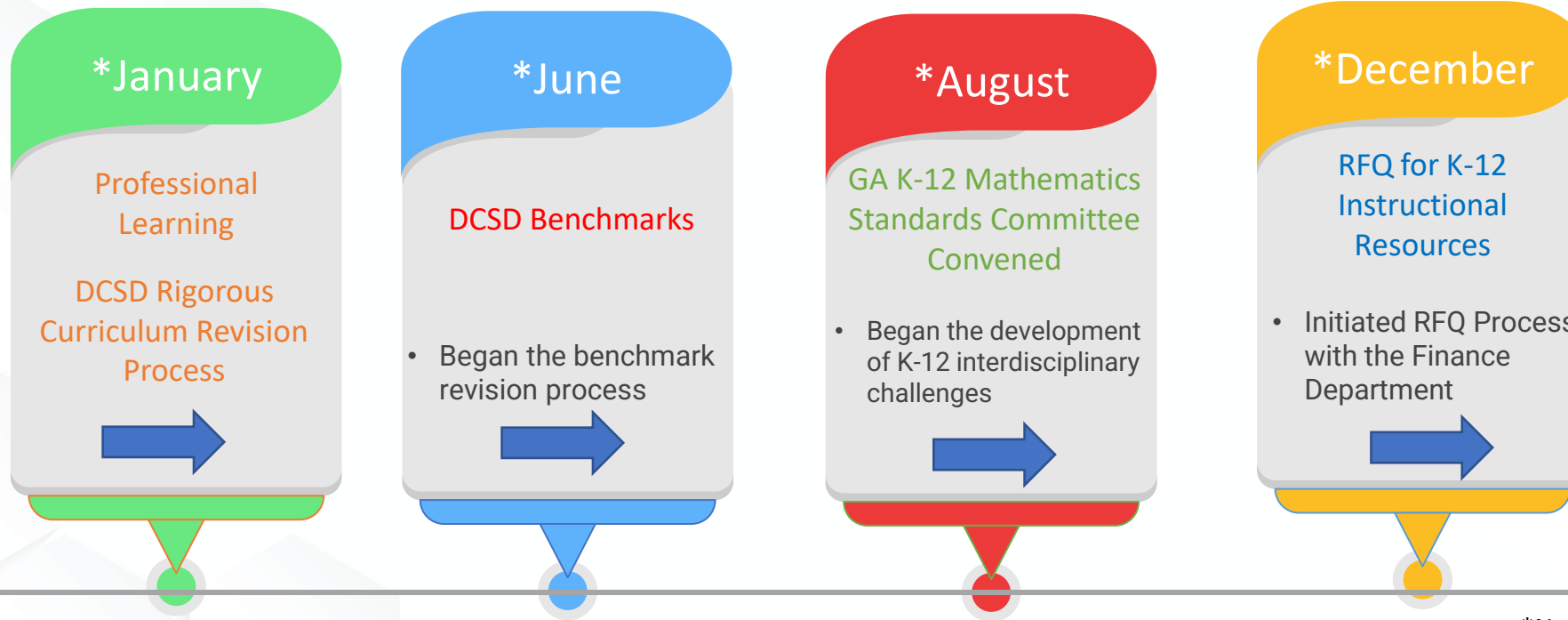
Next Steps

DCSD's Mathematics Journey 2021



*Note: Ongoing

DCSD's Mathematics Journey 2022




*Note: Ongoing

DCSD's Mathematics Journey 2023

***January**

Professional Learning

Curriculum & Benchmarks Revision Process



January & February

DCSD Mathematics Community Meetings

- Hosted community meetings at Clarkston High School, Miller Grove High School, and Doraville United Elementary School

January - May

RFQ 23-546 ESSA, Cares Approval

- 21 vendors responded to RFQ 23-546
- 82 teachers selected and trained to participate in the instructional resource evaluation process

June

RFQ 23-546 Summer Learning Programs Summer Institute for Instructional Leaders

- Facilitated the community review sessions
- Participated in vendor presentations with top contenders and made final selections
- Supported middle schools with their site-based transition courses
- Hosted the DCSD Summer Institute for Instructional Leaders (*Elevating the DCSD Student Experience*)

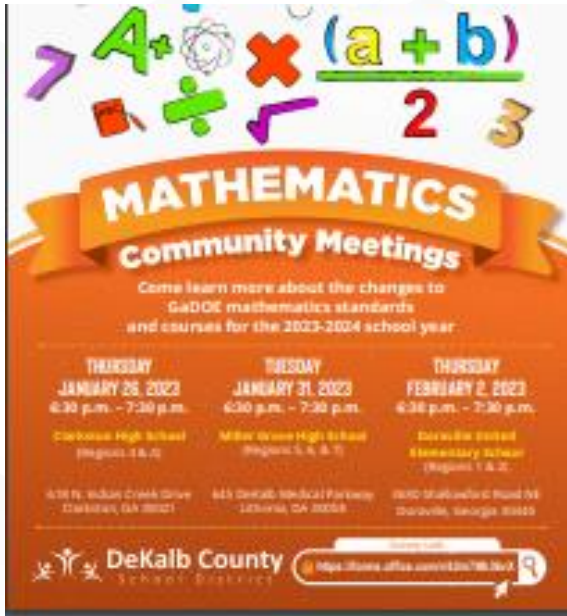
July

RFQ 23-546 GaDOE MathCON

- Present the RFQ 23-546 to the Board of Education for consideration and action
- Attend GaDOE MathCON and serve as session presenters
- Provide professional learning to new and returning teachers, academic coaches, and support personnel

*Note: Ongoing

DCSD's Mathematics Journey 2023



MATHEMATICS Community Meetings

Come learn more about the changes to GaDOE mathematics standards and courses for the 2023-2024 school year.

THURSDAY JANUARY 26, 2023 6:30 p.m. - 7:30 p.m.	TUESDAY JANUARY 31, 2023 6:30 p.m. - 7:30 p.m.	THURSDAY FEBRUARY 2, 2023 6:30 p.m. - 7:30 p.m.
Clarkston High School (Regions 1 & 2)	Miller Grove High School (Regions 3, 4, & 5)	Doraville Middle Elementary School (Regions 1 & 2)
630 N. Indian Creek Drive Clarkston, GA 30021	645 DeKalb Medical Parkway Lawrenceville, GA 30046	2600 Stratford Road NE Doraville, Georgia 30133

DeKalb County School District
<https://www.office.com/calendar/7b3b2c>

RFQ 23-546 K-12 Mathematics Instructional Resource Number of Educator Reviewers					
	Grades K-2	Grades 3-5	Grades 6-8	Grades 9-12	Total per Region
Region I	4	4	3	2	13
Region II	1	4	3	4	12
Region III	2	4	4	5	15
Region IV	4	1	3	5	13
Region V	3	1	2	1	7
Region VI	2	3	4	2	11
Region VII	4	3	1	3	11
Totals	20	20	20	22	82



DCSD
DIVISION OF CURRICULUM & INSTRUCTION
PRESENTS

2023 SUMMER INSTITUTE FOR INSTRUCTIONAL LEADERS
ELEVATING THE DCSD STUDENT EXPERIENCE

Date: June 12-15, 2023
Elementary Leaders: Monday & Tuesday | June 12 - 13
Secondary Leaders: Wednesday & Thursday | June 14 - 15

KEYNOTE SPEAKERS

 Kevin Dykes President National Council of Teachers of Mathematics (NCTM)	 Dr. Lynn Hunt Mathematics Programs Manager Georgia Department of Education	 Jennifer A. Gump Academic Officer Teacher Credential Mastermind (TCA)
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Reduction in Number of Standards

Big Picture: Comparison of Georgia Standards of Excellence (GSE) with Georgia K-12 Math Standards

Grade Level	GSE Standards (Current)	K-12 Math Standards (Effective Fall, 2023)
Kindergarten	28	9
1st Grade	26	7
2nd Grade	27	8
3rd Grade	36	9
4th Grade	43	9
5th Grade	40	9
6th Grade	50	8
7th Grade	44	8
8th Grade	35	9

GSE Standards (Current)	K-12 Math Standards (Effective Fall, 2023)
Coordinate Algebra 68	Algebra: Concepts and Connections 11
Analytic Geometry 79	Geometry: Concepts and Connections 10
Advanced Algebra 67	Advanced Algebra: Concepts and Connections 10

Mathematics Pathways for Success

(Middle School)

Grade Level	Current Course Taken 2022-2023	Beginning Fall 2023
5	Grade 5 Mathematics	Grade 6 Mathematics
6	Grade 6 Mathematics	Grade 7 Mathematics
	Accelerated Grade 6/7A Mathematics	Grade 7 Mathematics
7	Grade 7 Mathematics	Grade 8 Mathematics
	Accelerated Grade 7B/8 Mathematics	Enhanced Algebra: Concepts & Connections
8	Grade 8 Mathematics	Algebra: Concepts & Connections
	Coordinate Algebra or Coordinate Algebra/ Analytic Geometry A	Geometry: Concepts & Connections

Grade Level	Current Course Taken 2022-2023	Options for Current Accelerated Students	Beginning Fall 2023
6	Accelerated Grade 6/7A	<p>Options</p> <p>A: Take 7B Mathematics during ELT</p> <p>B: Take 7B Mathematics during Connections</p> <p>C: Take 7B Mathematics during Summer School at local school</p>	Grade 8 Mathematics

Mathematics Pathways for Success

The chart below identifies four math pathways for students to access advanced mathematics based on their post-secondary aspirations.

PATH A (On Grade Level/No Acceleration)	PATH B (Acceleration MS Only)	PATH C (Acceleration HS Only)	PATH D (Acceleration MS & HS)
6 th Grade: Grade 6 Mathematics	6 th Grade: Grade 6 Mathematics	6 th Grade: Grade 6 Mathematics	6 th Grade: Grade 6 Mathematics
7 th Grade: Grade 7 Mathematics	7 th Grade: Grade 7 Mathematics	7 th Grade: Grade 7 Mathematics	7 th Grade: Grade 7 Mathematics
8 th Grade: Grade 8 Mathematics	8th Grade: Enhanced Algebra: Concepts and Connections (High School Algebra)	8 th Grade: Grade 8 Mathematics	8th Grade: Enhanced Algebra: Concepts and Connections (High School Algebra)
9 th Grade: Algebra: Concepts and Connections	9 th Grade: Geometry: Concepts and Connections	9 th Grade: Algebra: Concepts and Connections	9 th Grade: Geometry: Concepts and Connections
10 th Grade: Geometry: Concepts and Connections	10 th Grade: Advanced Algebra: Concepts and Connections	10 th Grade: Geometry: Concepts and Connections	10 th Grade: Enhanced Advanced Algebra and AP Precalculus: Concepts and Connections
11 th Grade: Advanced Algebra: Concepts and Connections and/or Dual Enrollment	11 th Grade: Precalculus, AP Precalculus and/or AP Statistics and/or Dual Enrollment	11th Grade: Enhanced Advanced Algebra and AP Precalculus: Concepts and Connections and/or Dual Enrollment	11 th Grade: AP Calculus BC and/or Dual Enrollment
12 th Grade: Precalculus, AP Precalculus and/or AP Statistics, 4 th year math option and/or Dual Enrollment	12 th Grade: Precalculus (if not taken in 11 th grade) or AP Calculus AB or AP Calculus BC and/or Dual Enrollment	12 th Grade: AP Calculus AB or AP Calculus BC and/or Dual Enrollment	12 th Grade: Georgia Tech Distance Math OR another college-level Calculus course beyond AP Calculus and/or Dual Enrollment

Note: Acceleration prior to 8th grade for content and/or grade acceleration continues to be an option for all students through the DCSD Acceleration Guidelines.

Utilizing Mathematical Reasoning and Mathematical Modeling

GRADE
7

Former Math Problem Examples

Solve the inequality showing all your work.

$$4x + 2 \geq 20$$

The community center has \$175 to spend on video games for its new gaming system. Games are on sale for \$35 each.

Write and solve an inequality to represent the number of games the center could buy.

J's Graphic Designs



Custom T-shirts only \$10
No set up cost for orders over 25.
Set up cost \$45 for orders under 25.



New Standards Math Problem Example

Justin has started a T-shirt graphic design business. He has been fortunate enough to find sponsors who will donate the shirts for him to use in his business which helps to keep his prices at only \$10 per shirt.

Justin's Goal: To make at least \$600 over 3 months.

Graphic Design Orders

1. Write an inequality which shows how many shirts Justin must sell to make at least \$600 if all orders are under 25 shirts. Solve and graph on a number line the solution to the inequality.
2. Write an inequality which shows how many shirts Justin must sell to make at least \$600 if all orders are over 25 shirts? Solve and graph on a number line the solution to the inequality. Explain to Justin how many shirts he will need to sell if all orders are over 25 shirts.

NEXT STEPS

- Purchase K-12 instructional resources (print and digital)
- Provide mathematics professional development for elementary, middle, and high schools
- Facilitate unit-by-unit training



QUESTIONS

Additional Resources
[New Mathematics Standards & FAQ](#)
[Mathematics Community Meeting Presentation](#)