



Grades 6 – 12 Mathematics Acceleration Program Packet

Division of Curriculum and Instruction

The contents of the Grades 6 – 12 Mathematics Acceleration Program Packet are to provide guidance to the local school with establishing a pathway for students that meet the program criteria. The Accelerated Program provides academically rigorous courses designed to challenge motivated students to comprehend math concepts and skills through a fast-paced compacted curriculum. A portion of the content learned during the program will be through independent study and personalized learning pathways. The coursework requires students to engage in the rigorous content at a high level outside of the class.

The Accelerated Program courses are mainly three-semester courses (one full year and $\frac{1}{2}$ of the next year course content) versus the traditional two-semester course. Students taking Accelerated Program courses will be expected to learn and work in a faster paced course and participate vigorously in classroom discussions and presentations. The Accelerated Program courses will require an extensive amount of reading, studying, note-taking, and class preparations outside of the classroom. Student's successes in the Accelerated Program are contingent upon being able to demonstrate the listed attributes for an effective teaching and learning environment.

- Note-taking and Problem Solving Skills
- Independent and Cooperative Learning
- Think logically and symbolically about mathematical concepts
- Reason analytically, deductively, and inductively
- Work, communicate, and justify mathematical concepts verbally and in writing
- Transfer learning to novel situations

The contents of the Grades 6 – 12 Mathematics Acceleration Program Packet consist of the listed tools to support the local school.

1. Comprehensive DCSD Secondary Mathematics Pathway Chart
2. Accelerated Program Qualifications
3. Accelerated Pathway Options for Middle School
4. Waiver Eligibility Committee
5. Waiver Eligibility Requirements
6. Acceleration Program Acceptance Letter
7. Acceleration Program Waiver Form
8. Acceleration Program Teacher Recommendation Form

As the contents of the Grades 6 – 12 Mathematics Acceleration Program Packet are reviewed, contact the Division of Curriculum and Instruction with all comments, questions, and/or inquiries.

Comprehensive DCSD Secondary Mathematics Pathway Chart

DeKalb County School District Secondary Mathematics Pathways										
Regular Education, Accelerated and Advanced Placement Mathematics Course Sequences										
Mathematics – Elementary (Grades K – 5)										
Grade K 27.01100	➔	Grade 1 27.01200	➔	Grade 2 27.01300	➔	Grade 3 27.01400	➔	Grade 4 27.01500	➔	Grade 5 27.01600
Mathematics – Middle Grades (Grades 6 – 8)										
Secondary Pathway Options					Accelerated Pathway Options					
Option 1		Option 2		Option 3	Option 4	Option 1		Option 2		
Grade 6	Grade 6 27.02100	Grade 6 27.02100	Grade 6 27.02100	Grade 6 27.02100	Grade 6 27.02100	Accelerated Grade 6/7A 27.0210017 DCSD Code – 97.0061001	Accelerated Grade 6/7A 27.0210017 DCSD Code – 97.0061001			
Grade 7	Grade 7 27.02200	Grade 7 27.02200	Grade 7 27.02200	Grade 7 27.02200	Grade 7 27.02200	Accelerated Grade 7B/8 27.0220017 DSCD Code – 97.0071001	Accelerated Grade 7B/8 27.0220017 DSCD Code – 97.0071001			
Grade 8	Grade 8 27.02300	Grade 8 27.02300	Grade 8 27.02300	Grade 8 27.02300 and Foundations of Algebra 27.04810	Grade 8 27.02300	GSE Coordinate Algebra 27.09710	GSE Accelerated Coordinate Algebra/Analytic Geometry A 27.09750			
Mathematics – Secondary Grades (Grades 9 – 12)										
Grade 9	Foundations of Algebra 27.04810	GSE Coordinate Algebra 27.09710	GSE Coordinate Algebra 27.09710	GSE Accelerated Coordinate Algebra/Analytic Geometry A 27.09750	GSE Analytic Geometry 27.09720	GSE Accelerated Analytic Geometry B/Advanced Algebra 27.09760	GSE Accelerated Analytic Geometry B/Advanced Algebra 27.09760			
Grade 10	GSE Coordinate Algebra 27.09710	GSE Analytic Geometry 27.09720	GSE Analytic Geometry 27.09720	GSE Accelerated Analytic Geometry B/Advanced Algebra 27.09760	GSE Advanced Algebra 27.09730	GSE Accelerated Pre-Calculus 27.09770	GSE Accelerated Pre-Calculus 27.09770			
Grade 11	GSE Analytic Geometry 27.09720	GSE Advanced Algebra 27.09730	GSE Advanced Algebra 27.09730	GSE Accelerated Pre-Calculus 27.09770	Fourth Mathematics Course Options	Fourth Mathematics Course Options	Fourth Mathematics Course Options			
Grade 12	GSE Advanced Algebra 27.09730	Fourth Mathematics Course Options	Fourth Mathematics Course Options	Fourth Mathematics Course Options	Fourth Mathematics Course Options	Fourth Mathematics Course Options	Fourth Mathematics Course Options			

Mathematics Support Courses for elective credit: 27.09810 Coordinate Algebra Support; 27.09820 Analytic Geometry Support; 27.09830 Advanced Algebra Support

Note: The teacher of record for any Carnegie Unit earning course must be a highly qualified teacher with a Mathematics 6-12 Georgia Certificate.

Accelerated Program Qualifications

The Accelerated Program is open to any student wishing to enroll. In order to assist with placement decisions, entrance guidelines and qualifications have been developed to provide a profile of students who would experience success in the program.

Academic Profile

- Successful completion of prerequisite mathematics coursework with a 90% or better final average
- Successful performance in related content area courses (Example: math and science relate)
- Scores at the “Distinguished” range on the Georgia Milestones Assessment

Personal Profile

- Reading on or above grade level
- Strong study skills
- Self-motivation to persevere when faced with challenging course work and rapid pace of instruction
- Proficient oral and written communication skills
- Self-discipline to plan, organize, and complete tasks independently

The Accelerated Program requires a substantial amount of work outside of the class for successful completion of the courses. Students and parents should be made aware of the time commitments as they consider entering the program.

Students and parents that meet the program qualifications should be provided with the Accelerated Program Acceptance Letter. It is strongly encouraged that a parent meeting occurs with the teacher that will provide instruction, the counselor, and school administration to explain and review the program expectations that have been addressed throughout the packet.

As a reminder, the teacher of record for the Coordinate Algebra course and Accelerated Coordinate Algebra/Analytic Geometry A course must be highly qualified with a Mathematics 6-12 Georgia Certificate. It is encouraged that any teachers of the Accelerated Program have the Gifted-in-Field Certification.

Teacher certification can be checked through the Georgia Professional Standards Commission site. The Public Certificate Look Up dashboard will allow for the local school to check certification status. Use the provided link to check certification status <http://www.gapsc.com/Certification/Lookup.aspx> .

Accelerated Pathway Options for Middle School Students

The provided chart outlines the course curriculum and assessment associated with each course taken on the accelerated pathway. It is important that students and parents are completely clear on the alignment of the course instruction and assessment program. For example: On the Accelerated Pathway 2, the students will learn the first semester content of Analytic Geometry in Grade 8 while taking Accelerated GSE Coordinate Algebra/Analytic Geometry A but will be tested on the Geometry portion of the curriculum when they enter the 9th grade. It is important that the students and parents understand that the students will not be re-introduced to the content in the 9th grade because of compacted curriculum expectation.

Accelerated Pathway Options for Middle School Students		
Grade	Accelerated Pathway Option 1	Accelerated Pathway Option 2
6	27.0210017 Accelerated GSE Mathematics 6/7A Curriculum: Full Year of Grade 6 and Semester A of Grade 7 Assessment: GSE Milestones End of Grade (EOG) for Grade 6	27.0210017 Accelerated GSE Mathematics 6/7A Curriculum: Full Year of Grade 6 and Semester A of Grade 7 Assessment: GSE Milestones End of Grade (EOG) for Grade 6
7	27.0220017 Accelerated GSE Mathematics 7B/8 Curriculum: Semester B of Grade 7 and Full Year of Grade 8 Assessment: GSE Milestones End of Grade (EOG) for Grade 7	27.0220017 Accelerated GSE Mathematics 7B/8 Curriculum: Semester B of Grade 7 and Full Year of Grade 8 Assessment: GSE Milestones End of Grade (EOG) for Grade 7
8	27.09710 GSE Coordinate Algebra Curriculum: Full Year of Coordinate Algebra Assessment: GSE Milestones End of Course (EOC) for Coordinate Algebra	27.09750 Accelerated GSE Coordinate Algebra/Analytic Geometry A Curriculum: Full Year of Coordinate Algebra and Semester A of Analytic Geometry Assessment: GSE Milestones End of Course (EOC) for Coordinate Algebra
9	27.09720 GSE Analytic Geometry Curriculum: Full Year of Analytic Geometry Assessment: GSE Milestones End of Course (EOC) for Analytic Geometry	27.09760 Accelerated Analytic Geometry B/Advanced Algebra Curriculum: Semester B of Analytic Geometry and Full Year of Advanced Algebra Assessment: GSE Milestones End of Course (EOC) for Analytic Geometry
10	27.09730 GSE Advanced Algebra Curriculum: Full Year of Advanced Algebra Assessment: DCSD SLO for Advanced Algebra	27.09770 Accelerated GSE Pre-Calculus Curriculum: Full Year of Pre-Calculus Assessment: DCSD SLO for Pre-Calculus
11	Fourth Mathematics Course Options	Fourth Mathematics Course Options
12	Fourth Mathematics Course Options	Fourth Mathematics Course Options

Waiver Eligibility Committee

In an effort to support and encourage high levels of student achievement, it is important to maintain open access for acceleration program in mathematics. Students who have not met the qualifications for the accelerated program **may** qualify to waive into a course. A Waiver Eligibility Committee will be established at the local school consisting of a counselor, mathematics department chair, mathematics faculty member of the Accelerated Program, Academic Coach (optional), Instructional Support Specialist (optional), and school administrator(s). The purpose of the Waiver Eligibility Committee is to review the Waiver Eligibility Qualifications to determine the entry status of the student. The parent reserves the right to contest the decision through the Regional Superintendent's Office.

Parents may reserve the right to sign a waiver to enroll their student in the accelerated program in the sixth, seventh, and eighth grade if the initial qualifications are not met. The parent must be advised that the Waiver Eligibility Committee will review the student portfolio and render a decision within two week of receipt of a signed waiver and current math teacher recommendation form.

A representative from the Waiver Eligibility Committee should make contact with parents upon receipt of the waiver to clarify that the accelerated program is a highly rigorous course of study that once the student is placed on the accelerated pathway, if a child is not meeting standards, a remediation plan can be developed and monitored at the 4.5 reporting period. This process will provide a struggling student an additional 2 weeks with academic support to determine if the student should be withdrawn from the course. Individual student/teacher preferences and or personality differences should not enter into the decision to remove a student from the program.

Waiver Eligibility Requirements

- Current Math Teacher Recommendation
- Waiver Eligibility Committee review of student Assessment Measures portfolio (benchmarks, universal screener, etc.)
- Grade A or B in mathematic courses for 2 consecutive years

Optional Waiver Eligibility Requirements per Local School

- Pre-requisite and fluency assessment
- Student Interview



Grades 6 – 12 Mathematics Acceleration Program Waiver

Date: _____

Student: _____

Student ID: _____

School: _____

Placement Waiver for:	
	Accelerated Math 6/7A (1.5 year curriculum)
	Accelerated Math 7B/8 (1.5 year curriculum)
	Accelerated Coordinate Algebra/Analytic Geometry A (1.5 year curriculum)
	Coordinate Algebra (1 year ahead)

Your child has not met the criteria for the accelerated pathway for the upcoming school year. The accelerated mathematics pathway is a highly rigorous program of study that leads toward the opportunity to take Advanced Placement courses beginning the junior year in high school. The content standards for the accelerated pathway courses are the same as the regular classes, but the accelerated courses are compacted courses (1 full year of once course and ½ year of the second course) that move a very fast pace. Students are expected to learn and master 1.5 years of content in one academic year.

This waiver is to request placement in the acceleration pathway. By signing below, you are:

- ✓ Agreeing to the parameters and specifications for participation in the acceleration pathway for mathematics.
- ✓ Aware that continued participation in the acceleration pathway is contingent upon successful academic course completion for each reporting period.
- ✓ Aware that the student’s academic progress will be monitored each progress reporting period.
- ✓ Aware that due to the pace and required curriculum for the course, time will not be allotted to address standards which should have been learned from prerequisite courses.

It is at the discretion of the local school to establish a school placement committee to review and monitor each student accepted through the wavier agreement consent on a case-by-case basis. Participation in the acceleration pathway is based upon the availability of space and/or the program at the local school.

Complete and return a copy of this form to _____ no later than _____ . It is important that a copy is retained for your records.

(Print) Parent/Guardian’s Name Signature Date Contact Number

(Print) Student’s Name Signature Date

Received by: _____	Date: _____
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Grades 6 – 12 Mathematics Acceleration Program Waiver

Student: _____

Student ID: _____

Grade 6

- My sixth grade student will take the [Accelerated GSE Mathematics 6/7A course](#). My student will continue with the accelerated pathway as outlined by the state provided that the grade earned at the end of the school year is an A or B, with a Georgia Milestones EOG Achievement Level of Proficient or Distinguished. [I have been provided a copy of the Accelerated GSE Mathematics 6/7A Curriculum at a Glance and course syllabus that outlines the coursework.](#)
- Any student may be withdrawn from [Accelerated GSE Mathematics 6/7A](#) no later than the **35th day of the semester (6.5 weeks) and placed in GSE Math 6.**

Student Signature:	Date:
Parent Signature:	Date:

Grade 7

- My seventh grade student will take the [Accelerated GSE Mathematics 7B/8 course](#). Students choosing this option, who have not taken the Accelerated GSE Mathematics 6/7A course, may have mathematics instructional gaps. My student will continue with the accelerated pathway as outlined by the state provided that the grade earned at the end of the school year is an A or B, with a Georgia Milestones EOG Achievement Level of Proficient or Distinguished. [I have been provided a copy of the Accelerated GSE Mathematics 7B/8 Curriculum at a Glance and course syllabus that outlines the coursework.](#)
- Any student may be withdrawn from [Accelerated GSE Mathematics 7B/8](#) no later than the **35th day of the semester (6.5 weeks) and placed in GSE Math 7.**

Student Signature:	Date:
Parent Signature:	Date:

Grade 8

In the eighth grade, my student will take the [GSE Coordinate Algebra](#) or [Accelerated GSE Coordinate Algebra/Analytic Geometry A](#) course for a Carnegie unit.

- ✓ The numerical grade earned by my student for [GSE Coordinate Algebra](#) or [Accelerated GSE Coordinate Algebra/Analytic Geometry A](#) will be incorporated into the high school grade point average (GPA) and posted on the official transcript.
- ✓ My student will be required to take an End of Course (EOC), which will count as 20% of the final grade.
- ✓ My student will be on the path to take AP Calculus during the 11th grade year in high school.
- Students must enter into [GSE Coordinate Algebra or Accelerated GSE Coordinate Algebra/Analytic Geometry A](#) at the beginning of eighth grade. An exception is made for students who transfer into the school providing course equivalency of Accelerated GSE Mathematics 6/7A and Accelerated GSE Mathematics 7B/8 is already on their transcript.
- Any student may be withdrawn from [GSE Coordinate Algebra or Accelerated GSE Coordinate Algebra/Analytic Geometry A](#) no later than the **35th day of the semester (6.5 weeks) and placed in GSE Math 8.**
- At the end of each semester, a student course code may **not** be changed due to an unwanted grade of B, C, D, or F on the student’s transcript. It is incumbent on the school staff to monitor student progress, so that any necessary withdrawal from the CU course occurs **no later than the 35th day of the semester (6.5 weeks).**

Student Signature:	Date:
Parent Signature:	Date:

Grades 6 – 12 Mathematics Acceleration Program Teacher Waiver Recommendation Form

Date: _____

Student: _____

Student ID: _____

Recommending Teacher: _____
(PRINT) Last Name First Name School Name

Characteristics of a Mathematically Proficient Students				
Taken from:	Strongly Disagree	Disagree	Agree	Strongly Agree
	(0)	(1)	(2)	(3)
1. The Standards for Mathematical Practice				
2. Sheffield, Linda. (February 2000). Creating and Developing Promising Young Mathematicians, pp.7-8.				
1. Analyze given information to develop possible strategies for problem solving.				
2. Identify and execute appropriate strategies to solve problems.				
3. Check for accuracy and reasonableness of work, strategy and solution.				
4. Recognize the relationships between numbers/quantities within the process to evaluate a problem.				
5. Justify (orally and in written form) the approach used to solve a problem.				
6. Listen, understand, analyze and respond to the reasoning of others.				
7. Use a variety of methods to model, represent, and solve real-world problems.				
8. Simplify complicated problems by making simpler problems.				
9. Select and use appropriate tools to solve problems.				
10. Use a variety of technologies to explore mathematics.				
11. Calculate answers efficiently and accurately and label all work.				
12. Formulate precise explanations (orally and in written form) using both math representations and words.				
13. Communicate using clear mathematical terms and symbols.				
14. Use patterns or structure to make sense of mathematics.				
15. Recognize similarities and patterns to determine an efficient process to solve a problem.				
16. Evaluates the reasonableness of results.				
OVERALL SCORE = <input style="width: 100px; height: 20px;" type="text"/>	TOTALS			

Extremely Promising: 33 – 48

Promising: 17 – 32

Somewhat Promising: 0 – 16

_____ I recommend this student for the accelerated mathematics pathway.

_____ I do not recommend this student for the accelerated mathematics pathway for the following reason(s). (Record feedback on the back of the form.)