



**6<sup>th</sup> Grade Mathematics Syllabus  
 School Year 2015-16**

**Georgia Cyber Academy Middle School Vision Statement:**

*Virtual learning during the middle school years continues to lay the foundation for success in high school and beyond. In addition to mastering the standards in a virtual environment, we encourage our students to be committed life-long learners and perceptive citizens of the world.*

**Georgia Cyber Academy Middle School Mission Statement:**

*We will strive for the academic success of every student. We will create a relationship built on trust and respect among student, learning coach, and teacher, necessary for a student's successful educational journey.*

**Weekly LIVE Class Connect Schedule:**

SESSION	DATE(S) / TIME(S)
<b>Math Class Connect (CC) Instructional Sessions</b> <i>Classes will last 55 minutes and will meet 4 times each week. The link to attend is found in the OLS.</i> <b>Required live classes begin August 10th.</b>	Monday, Tuesday, Wednesday, Thursday  Section 1: 10:05 AM – 11:00 AM <b>Please log in promptly at 10:00am.</b>  OR  Section 2: 11:35 AM - 12:30 PM <b>Please log in promptly at 11:30am.</b>
<b>Math Targeted Instructional Practice:            W.I.N. (What I Need) Sessions</b> <i>These sessions will last 45 minutes and are specific to the need of the individual student. Students will be invited to sessions as needed; link will be in the OLS.</i>	Tuesdays and Wednesdays  1:00 PM – 1:45 PM
<b>Advisement Team Time:</b> <i>You will see this link in your OLS. Join us for homeroom time, and then help sessions for each content area will be provided.</i>	Fridays  8:30 AM – 9:30 AM
<b>Math SOS Session with Math Coach</b> <i>Meets for 45 minutes on the first Friday of each month.</i>	Fridays (1 <sup>st</sup> Friday of the month) 10:05 AM – 10:50 AM

**NOTE:** All Class Connect sessions are recorded, and students can access recordings via their OLS. Occasionally, a Class Connect may be canceled due to unforeseen circumstances or a recording will be sent in place of a live class. These changes will be communicated though kmail and/or on the Monthly Instructional Calendar (MIC).

**NOTE:** This syllabus is subject to change at the discretion of the instructor in order to meet your student's individual needs as prescribed in your student's Individualized Learning Plan (ILP).

## Intermediate Mathematics A

### Course Description:

The GCA Middle School Mathematics department will directly address the Georgia Standards of Excellence in Class Connect sessions throughout the school year. The Online School (OLS) portion of the course combined with direct teacher instruction, writing expectations, effective use of assessments - both summative and formative, and Study Island completion is designed to elicit evidence of students' mandated mastery of the Georgia Standards of Excellence. The GCA 6th Grade Mathematics model provides a holistic approach in four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

### Purpose and Course Objectives:

- Students will actively engage in the development of mathematical understanding by 1) using a variety of representations, 2) working independently and cooperatively to solve problems, 3) estimating and computing efficiently, and 4) conducting investigations and recording findings.
- Instead of committing information to memory as a separate fact, students will use reasoning and logical connections to make mathematics manageable. Each student will utilize the Standards for Mathematical Practice (SMP's): (1) make sense of problems and persevere in solving them, (2) reason abstractly and quantitatively, (3) construct viable arguments and critique the reasoning of others, (4) model with mathematics, (5) use appropriate tools strategically, (6) attend to precision, (7) look for and make use of structure, and (8) look for and express regularity in repeated reasoning.
- To support GCA's commitment to reading & writing across the curriculum, a greater emphasis will be placed on problem solving, reasoning, and written communication.

### GEORGIA STANDARDS OF EXCELLENCE:

<https://www.georgiastandards.org/Georgia-Standards/Pages/Math-6-8.aspx>

### Course Requirements:

- Login/Participation in LIVE Class Connect Sessions – Recordings will be available for student review of instruction.
- Complete required Math Study Island Pathways.
- Complete required OLS Lessons that are assigned on your Monthly Instructional Calendars. Students will be assigned *approximately* 80 lessons to complete throughout the course of the school year. The assigned lesson checkpoint must be mastered with a score of 80% or above for the lesson to be considered completed. A cumulative checklist of assigned OLS lessons will be listed on your Monthly Instructional Calendars to help you stay on track with your lesson assignments.
  - **NOTE: OLS grades are based on mastery of checkpoints for assigned lessons only. To ensure mastery of the Georgia Standards of Excellence and accuracy in grading, we ask that students do not complete lessons that have not been assigned. Your math teacher may remove your progress or mark lessons as skipped to confirm that you are only completing assigned lessons. Please contact your math teacher if you have any questions about this policy.**

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- Complete initial assessment – Math Pre-Test in USATestPrep.
- Complete interim assessments as assigned in USATestPrep (4 Interim Assessments).
- Complete summative assessments as assigned – Math Post-Test in USATestPrep.
- Complete required “Practice” groups of assignments in USATestPrep, as assigned in USATestPrep and on your Monthly Instructional Calendars (4 Practice groups – one for each Interim Assessment). These practice groups will be graded based on completion and will contribute to the Assessment portion of the math grade.
- Complete various graded Math Content Writings throughout the course of the year, including but not limited to: journal entries, short answer essays, and “free response” assessment questions assigned in USATestPrep. *Due dates and guidelines will be communicated in Class Connect sessions, via kmail, and within your monthly instructional calendar.*
- Successful mastery of standards on the Georgia Milestones End of Grade Test- in person the week of April 25-29, 2016.

### **Project Based Learning**

GCA’s ALP program stands for the Advanced Learner Program. This program is designed to offer opportunities to enrich your learning so that you will reach your academic potential. This year we are incorporating Project Based Learning and Problem Based Learning. Project Based Learning is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to a complex question, problem, or challenge. Problem-based learning (PBL) is a student-centered pedagogy in which students learn about a subject through the experience of solving an open-ended problem. Each teacher will design these learning opportunities around the Georgia Standards of Excellence as well as the data we gain from the various forms of assessment throughout the year. Please pay attention to your Monthly Instructional Calendar, Class Connects, and kmails for these extra learning opportunities. Each individual teacher will decide which projects are optional and which are required.

### **Writing across the Curriculum**

In accordance with our school mission to strive for the academic success of every student, writing will be included in our Pre-Test, Post-Test, and Interim Assessments. This plan models the expectations for the end of grade testing and encourages critical thinking. This will be a graded part of the assessments assigned in USA Test Prep.

### **Materials for Students:**

- OLS Course Name: Intermediate Mathematics A (IMA) - *found in OLS.*
- Textbook provided by K12: Fundamentals of Geometry and Algebra.
  - *Digital textbook link:*  
<http://k12.kitaboo.com/eBookWs/ebook/maths/maths06/Launch.html#>
- IMA Student Guides. Students can use these by viewing them on their computer screen OR copies may be printed – *found in the OLS.*

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- Math Notebook/Binder – You will need a notebook and/or binder for keeping lesson notes, practice problems, and resources. You are expected to bring your math notebook to each of your online math sessions and to actively work out problems and take notes in your notebook throughout each session. Your math teacher will help you determine how to set up and use your notebook.
- Calculator – You will need a basic, four-function calculator (has add, subtract, multiply, and divide functions, but does not have the ability to graph or store text). **Calculator use is allowed on all assignments, unless your math teacher specifically states that calculators are not allowed to be used.**
- *Study Island Login Information:*
  - Web site: [www.studyisland.com](http://www.studyisland.com)
  - Username: your ID number @ gca (ex: 123456@gca)
  - Default Password: gca
- *USA Test Prep Login Information:*
  - Web site: [www.usatestprep.com](http://www.usatestprep.com)
  - Account ID: gacyber
  - Username: your student ID number (ex. 12345678)
  - Password: student first name + last three numbers of student ID # (all lowercase & no spaces, ex: teresa678)

### **Grading Criteria**

All Middle School students enrolled in Georgia public schools are required to be given formal letter grades. GCA students will earn grades by completing and participating in the various components of our curriculum. An online grade book, Infinite Campus, will be utilized and both students and parents will have access to the grades. Grades will be based on the following scale:

- Study Island Pathways – 35%
- OLS Progress Expectation (**only lessons assigned on the Monthly Instructional Calendar will count as part of the grade**) – 30%
- Assessments and Writing Assignments (required USATestPrep assignments) – 35%

### **Late Work Policy:**

**OLS** - Expected progress due by May 20<sup>th</sup>; Students are expected to complete OLS lessons as assigned on the Monthly Instructional Calendars.

**Study Island Pathways** – Students must complete 100% of all Study Island Pathways. Study Island Pathways are due on specified dates, but should ultimately be completed by March 31, in preparation for the Georgia Milestones End of Grade Test.

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**Study Island® Pathways:**

- Pathway 1: September 1 - September 30
- Pathway 2: October 1 - October 30
- Pathway 3: November 1 - December 18
- Pathway 4: January 2 - January 29
- Pathway 5: February 1 - February 29
- Pathway 6: March 1 - March 31

**Pre-Test, Interim Assessments, and Post-Test – It is very important that all assessments are completed by the communicated due dates. A late penalty will be enforced if an assessment is completed late.** If turned in within 1 week: 10 points deducted, whether it day 1 or day 7 after due date. If turned in after the 1st overdue week: 20 points deducted, whether it is day 8 or day 14. For anything after 14 days, the most that can be earned is half credit through the end of the semester. After the end of the semester, the grade will be a 0 (0 points).

**USATestPrep Practice Groups** – Practice groups are assigned with the intention of best preparing students to be successful when completing the Interim Assessments. Therefore, it is very important that practice groups of assignments are completed in a timely manner, as assigned on the Monthly Instructional Calendars. **In order to receive credit for completion, practice groups of assignments must be completed by the communicated deadlines. 0 points will be awarded for late submissions.**

**TESTING:**

\*\*\*The Georgia Milestones EOG (End of Grade) tests will be given April 25-29, 2016. Compliance with state mandated testing is required. Students who do not comply with state mandated testing requirements will be withdrawn.

\*\*\*Middle School recognizes All A and All A/B Honor Roll at the end of semester 1 and end of semester 2. For semester 1, grades will be calculated through January 11<sup>th</sup> for consideration of Honor Roll. Semester 1 Honor Roll only includes the core content subjects. For semester 2, grades will be calculated through May 17<sup>th</sup> for consideration of Honor Roll. Semester two Honor Roll includes all subjects (core content, PE, Health, Advisement, and Elective). \*\*\*

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