



Course Title: 7th Grade Accelerated Common Core Mathematics

Instructor: Ms. Miller

Instructor Availability: Wednesdays and Fridays after school (Some Mondays as well)

Instructor Contact: lmiller@gomperscharter.org 619-768-3495 Room 32

Course Description:

This course is designed to move at an accelerated pace. In this class we will not only cover 7th grade Common Core requirements, but we will delve into most of 8th grade standards. 7th grade topics covered are as follows: rational numbers, expressions and equations, proportional relationships, scale drawings, geometric constructions, area, surface area, and volume for two and three dimensional shapes, statistics and probabilities. In addition to the above topics, students will learn the following 8th grade topics: more complex equations and expressions, square roots, cube roots, scientific notation, functions, slope, systems of equations and pythagorean theorem. In order to learn this amount of material, students will be expected to do extra homework, ask questions and come to after school tutoring Wednesdays after school and some Mondays. If students are successful this year, they may be placed in 9th grade math during their 8th grade year. Successful students may need to attend Spring and/or Summer Intersession for additional learning.

GPA Grading Guidelines:

Category	Grading Criteria	Percentage
Classwork	<ul style="list-style-type: none">Completion/Quality (Must have a minimum of 1 weekly grade)	30%
Demonstrations of Learning	<ul style="list-style-type: none">Key Course Assignments (See course syllabus for Unit Key Assignments)	35%
Homework/Independent Learning	<ul style="list-style-type: none">Any work assigned to a student in which they complete on their own outside of class. (Must have a minimum of 1 weekly grade)	10%
Quarter Finals	<ul style="list-style-type: none">Quarter finals are course specific, standards based exams that cover content from the 9 week quarter.	25%

* Classwork/Participation and Homework/Independent Learning will be updated weekly.



Prerequisites: Students must pass 6th grade Common Core Mathematics.

Course Materials: 7th Grade Mathlinks, Khan Academy/Learning Upgrade, Chromebooks, Additional Resources to help aid student growth.

Course Structure:

25% Teacher Directed

Students will receive direct instruction from their instructor providing feedback and necessary content material in order to be successful within the class period. This includes preparations for class and dismissal.

35% Teacher Facilitated

Students have the ability, but not limited to, working with peers, one-on-one with the instructor, as well as engage (participate) in classroom discussions.

40% Independent/Group Work

Students will have the ability to work independently while instructor circulates throughout the classroom answering questions and providing direct feedback. This time also includes presentations, tests, quizzes and/or any other formal assessments.

All coursework and materials aligns with the Mathematical Practice Standards as follows:

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
8. Look for and express regularity in repeated reasoning

Course of Study:

Unit Name	Learning Objectives	Estimated Time Line
Math Placement Exam	Students will learn computer protocols and take a placement exam.	8/28/17 - 8/30/17

Unit Name	Learning Objectives	Estimated Time Line
Fractions and Decimals	Lesson 1: Terminating Decimals Lesson 2: Repeating Decimals Lesson 3: Graphing Fractions and Decimals	9/01/2017 - 9/15/17



Unit Name	Learning Objectives	Estimated Time Line
Rational Numbers on the Number Line	Lesson 1: Integers and Number Line Lesson 2: Opposites and Absolute Value Lesson 3: Rational Numbers and Number Line	9/18/2017 - 9/26/2017

Unit Name	Learning Objectives	Estimated Time Line
Integer Addition and Subtraction on the Number Line	Lesson 1: Addition on the Number Line Lesson 2: Subtraction on the Number Line Lesson 3: Addition and Subtraction: Rational Numbers	9/28/2017 - 10/06/2017

Unit Name	Learning Objectives	Estimated Time Line
Rational Numbers: Multiplication and Division 2	Lesson 1: Order of Operations Lesson 2: Ratios of Fractions Lesson 3: Multiplication & Division: Rational Numbers	10/08/2017 - 10/20/2017

Unit Name	Learning Objectives	Estimated Time Line
Probability	Lesson 1: Introduction to Probability Lesson 2: Spinners Lesson 3: Flips, Rolls, and Fair Games	10/23/2017 - 11/01/2017

Unit Name	Learning Objectives	Estimated Time Line
Expressions and Equations	Lesson 1: Equivalent Expressions Lesson 2: Hundreds Chart Patterns Lesson 3: Polygon Area Puzzle	11/06/2017 - 11/17/2018



Unit Name	Learning Objectives	Estimated Time Line
Solving Equations	Lesson 1: Solving Equations: Mental Math Strategies Lesson 2: Solving Equations: Balance Strategies Lesson 3: Solving Equations with Rational Coefficients	11/27/2018 - 12/08/2018

Unit Name	Learning Objectives	Estimated Time Line
Inequalities	Lesson 1: Linear Inequalities Lesson 2: Solving Linear Inequalities Lesson 3: Inequality Problems	12/11/2018 - 01/12/2018

Unit Name	Learning Objectives	Estimated Time Line
Proportional Reasoning	Lesson 1: Proportional Reasoning Lesson 2: Rate Problems Lesson 3: Best Buy Problems	01/16/2018 - 01/29/2018

Unit Name	Learning Objectives	Estimated Time Line
Percent and Proportion Problems	Lesson 1: Percent Increase and Decrease Lesson 2: Simple Interest Lesson 3: Sales and Commissions	02/05/2018 - 02/15/2018

Unit Name	Learning Objectives	Estimated Time Line
Angles, Triangles, and Quadrilaterals	Lesson 1: Angle Measurements Lesson 2: Angle Explorations Lesson 3: Drawing Triangles and Quadrilaterals	02/20/2018 - 03/06/2018

Unit Name	Learning Objectives	Estimated Time Line
Scale Drawings and Circle Measurements	Lesson 1: Scale Drawings Lesson 2: Circumference of Circles Lesson 3: Area of Circles	03/07/2018 - 03/16/2018



Unit Name	Learning Objectives	Estimated Time Line
Plane and Solids Figures	Lesson 1: Problems Involving Plane Figures Lesson 2: Problems Involving Solid Figures Lesson 3: Cross Sections of Solid Figures	04/03/2018 - 04/20/2018

Unit Name	Learning Objectives	Estimated Time Line
Sampling	Lesson 1: Introduction to Sampling Lesson 2: Comparing Samples Lesson 3: Fish in a Lake	04/23/2018 - 05/09/2018

Unit Name	Learning Objectives	Estimated Time Line
8th grade Expressions and Equations	Lesson 1: Equation Review Lesson 2: Solving Equations with variables on both sides	05/10/2018 - 05/18/2018

Unit Name	Learning Objectives	Estimated Time Line
Functions	Lesson 1: Graphing Review Lesson 2: Definition of Function Lesson 3: Function Word Problems	05/21/2018 - 06/06/2018

Unit Name	Learning Objectives	Estimated Time Line
Slope	Lesson 1: Positive/ Negative/ Undefined/ Rise/Run Lesson 2: Slope Formula Lesson 3: Slope-Intercept	06/07/2018 - 06/21/2018

Unit Name	Learning Objectives	Estimated Time Line
Systems of Equations	Lesson 1: Solving Systems by Graphing Lesson 2: Substitution Method Lesson 3: Elimination Method	*Spring/Summer Intersession



Unit Name	Learning Objectives	Estimated Time Line
Square Roots, Cube Roots, Scientific Notation, Pythagorean Theorem	Lesson 1: Square/ Cube Roots Lesson 2: Scientific Notation Lesson 3 :Pythagorean Theorem	*Spring/Summer Intersession

Course Specific Student Expectations:

- All math assignments should be completed in **PENCIL** only.
- Students are required to bring all materials to class daily.
- Notebooks are to be kept neat & organized at all times.
- Students are required to complete all computer work (Khan Academy and/or Learning Upgrade) within the quarter/semester that it was assigned.
- Computer Protocols **MUST** be followed at all times.

Accommodations/Modification and Supports:

Any student who requires accommodations, modifications or additional supports should contact me as early as possible so that we may arrange accommodations, modifications and supports.

GPA Student Expectations

School-wide Attendance: All students are expected to be punctual and in their classroom seat, ready to learn for each day. Under California law (Ed. Code 48200) all children between the ages of six and eighteen are required to be enrolled and in regular attendance at school. GPA families know that school attendance is the critical first step to make sure that each student receives an education that will help them on their path to college. Students cannot learn what they need to be prepared for the next grade level, if they are not in school. The more absences from school a student has, the more they fall behind in their classes and the more difficult it will be to make it to college.

Planner Use: All students are expected to write all assignments in their GPA planner daily. Your first GPA planner will be provided by the school to support organization and time management.

Homework Completion: As a school working toward college preparation, all GPA students are expected to complete their daily/weekly assignments. Students who fail to complete their homework assignments on time, and are unexcused, will be required to attend lunch and after school tutoring support daily until completed. Until all assignments are completed, students may not be eligible for athletics, clubs, and other extracurricular activities.



Electronic Device Policy: Cell phones, smart watches, and other electronic communication devices that can send and/or receive data are not permitted to be visible, heard, or used in any manner during school hours except by approval of school authorities. Any violation and/or disruption of the learning process will result in the confiscation of the item. The parent/guardian must pick up the confiscated item from the Office of Student Conduct or the teacher.

Computer/Internet Usage Policy: Students may not use computers and/or the GPA network without proper adult supervision. The teacher/staff will choose resources on the Internet that are appropriate for classroom instruction and/or research for the needs, maturity, and ability of their students.

Acceptable Use-

- Access to any site that provides information relevant to current class assignments
- Access to college or university websites
- Use of teacher approved educational software (games, instructional tools, etc.)

Academic Integrity: Honest behavior is an expectation for all students at Gompers Preparatory Academy. Our goal is to create and maintain an ethical academic atmosphere. Acts of academic dishonesty that will not be tolerated at GPA are listed below:

- Cheating on any classroom assignment, test, or quiz
- Plagiarism - copying or representing another's ideas, words, or work as one's own, without properly citing the source. Plagiarism includes the misuse of published material, electronic material, and/or the work of other students. The original writer who intentionally shares his/her work for another to copy, without the permission of the teacher, is also engaged in plagiarism.
- Fabrication (any falsification or invention of date, citation, or other authority in an assignment); theft or alteration of materials
- Unauthorized collaboration
- Unauthorized use of electronic devices

Students found in violation of GPA's Academic Integrity Policy will be disciplined appropriately which may lead to formal suspension. Consequences for offenses may include, but are not limited to, detention, *lowering of academic and citizenship grade and/or suspensions/exclusion from extracurricular activities.*

Standards/Format for Writing Papers - MLA Format:

The standard format for all papers follows the MLA formatting rules:

1. Typed, double-spaced: TIMES NEW ROMAN, 12 font, including title
2. Heading: 4 lines - UPPER LEFT corner

Student name: "Sammy Gompers"



Teacher name: Ms. Teacher
Course name, period: English I, Period 3
Date 06 February 2009

3. All pages numbered: upper right corner, last name and page number; no punctuation, no "p." or "pg."
4. Title: centered, upper and lower case
5. Work Cited/ Documentation Format: It is necessary to credit any source that is used in a paper or project. Plagiarism is considered cheating. All sources must be documented. Citing sources in a paper must be thorough and accurate. MLA formatting for in text citations and works cited is mandatory

Important Dates:

Quarter 1:

- Q1 Finals Week: October 23rd and 27th
- Parent Conferences: October 23rd - 27th
- End Date: October 30th

Quarter 2:

- Q2 Finals Week: January 22nd - 26th
- Parent Conferences: January 16th - 22nd
- End Date: January 31st

Quarter 3:

- Q3 Finals Week: April 9th - 13th
- Parent Conferences: April 16th - 20th
- End Date: April 23rd

Quarter 4:

- Q4 Finals Week: May 29th - June 1st
- End Date: June 26th

Student Signature : _____ Parent/Guardian Signature: _____

Date: _____

