



Course Title: Common Core Math 8

Instructor: Kellie Reil

Instructor Availability: Tuesdays and Thursday until 4:30pm

Instructor Contact: email: kreil@gomperscharter.org

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Course Description:

This course is designed to develop students' understanding of the formulation and reasoning about expressions and equations, modeling bivariate data with a linear equation, solving linear equations and systems of linear equations, grasping the concept of a function and using functions to describe quantitative relationships, analyzing two- and three-dimensional space and figures using distance, angles, similarity, and congruence, and understanding and applying the Pythagorean theorem.

GPA Grading Guidelines:

Category	Grading Criteria	Percentage
Classwork	<ul style="list-style-type: none">Completion/Quality <p>(Must have a minimum of 1 weekly grade)</p>	30%
Demonstrations of Learning	<ul style="list-style-type: none">Key Course Assignments <p>(See course syllabus for Unit Key Assignments)</p>	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. <p>(Must have a minimum of 1 weekly grade)</p>	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:

Successful completion of Common Core Math 6 and Math 7.



Course Materials:

GPA School Planner

Interactive Math Notebook (provided by teacher)

Binder with "Math" section

Pencil Pouch: two pencils, erasers, colored pen (not black), highlighter

Learning Upgrade/Khan Academy Journal (provided by teacher)

Digital Resources: Google Classroom, Learning Upgrade/Khan Academy

Course Structure:

This course will be lecture based where students will be required to take complete notes.

Following lectures, students will be asked to complete an independent assignment such as a worksheet or computer based assignment. Students will have daily assignments as well as long term, independent computer work to complete. Students will be regularly assessed through syntheses of learning, quizzes, performance tasks, unit exams, and final exams.

Course of Study:

Unit 1: Exponents and Scientific Notation

18 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.EE.1 8.EE.3 8.EE.4	Exponent Rules Exponential Expressions Scientific Notation Standard Notation	Unit 1 Assessment

Unit 2: Transformations

19 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.G.1abc 8.G.2 8.G.3 8.G.4	Perform and describe: <ul style="list-style-type: none">• Translations• Rotations• Reflections Identify and describe Dilations	Unit 2 Project Assessment "Create Your Own Sequence of Transformations"

Unit 3: Equations

13 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.EE.7ab	Solving one-variable equations with one, no or all solutions	Unit 3 Assessment



Unit 4: Angles and Triangles

13 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.G.5	Angle Relationships Triangle Theorems: angle and congruence	Unit 4 Assessment

Unit 5: Linear Equations

19 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.EE.5 8.EE.6 8.F.4	Distance-Time Graphs Slope Writing Linear Equations Graphing Linear Equations	Unit 5 Project Assessment "Water Park Project: Create Your Own Scale Model with Linear Equations"

Unit 6: Systems of Equations

13 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.EE.7ab 8.EE.8abc	Solving Systems of Equations: <ul style="list-style-type: none">• Substitution• Graphing• Elimination	Unit 6 Assessment

Unit 7: Real Numbers and the Pythagorean Theorem

15 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.NS.1 8.NS.2 8.EE.2 8.G.6 8.G.7 8.G.8	Rational and Irrational Numbers Pythagorean Theorem	Unit 7 Assessment

Unit 8: Functions

14 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
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8.F.1 8.F.2 8.F.3 8.F.4 8.F.5	Function Types	Unit 8 Assessment
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Unit 9: Data Analysis and Displays

12 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.SP.1 8.SP.2 8.SP.3 8.SP.4	Bivariate Data Two-way Frequency Tables	Unit 9 Assessment

Unit 10: Volume and Similar Solids

13 DAYS

Content Standards	Learning Objectives	Key Assignments/Exams
8.G.9	Volume of: <ul style="list-style-type: none">• Spheres• Cones• Cylinders	Unit 10 Mini-Performance Task

Course Specific Student Expectations:

Students will demonstrate REACH values at all times.

Students will follow the rules in accordance with Gompers Preparatory Academy handbook.

Students will come to class prepared every day with all course materials.

Students will write their assignments down in their planners, daily. It is expected that parents/guardians check student planners on a regular basis to support students.

Students will remain in their seats unless given permission by adult in the room.

Students will complete their work in a timely and legible manner.

Students will attend Mandatory Academic Counseling at lunch and/or after school if assignments are late or incomplete. Late assignments will lose 50% credit. Assignments turned in early, and complete, will earn 10% extra credit.

Students will read at least 30 minutes a day, outside of the classroom.

Students will effectively use their resources (teachers, peers, textbooks, and internet sources).

Students will be responsible for finding out and making up all work missed by being absent by checking with classroom leaders and the "absent bin". Students will have the number of days they were absent to make up work for full credit.



Students will have one week, from date assessment was given, to make-up Unit Assessments, if absent.

Students will receive a late grade if absent on Key Assignment due dates: projects, presentations, etc.

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: _____

