



labus

Course Title: Integrated Mathematics I, Advanced

Instructor: Ms. Tuan

Instructor Availability: Wednesdays 3:00-4:30 PM and by appointment

Instructor Contact: ctuan@gomperscharter.org; (619) 263-2171 ext. 2068

Course Description:

Integrated Math 1 provides the foundation required for success in future mathematics courses through an integration of both content and learning procedures. Topics covered include algebraic expressions and equations, number sense, probability and statistics, and geometry, all with an emphasis on deepening understanding of linear relationships. Through the use of data collection, equations, and graphs, students will recognize and develop patterns and models. Students will learn to use problem solving skills in real-world applications due to emphasis on mathematical literacy. Students will think critically, collaborate successfully with classmates, and communicate mathematical concepts effectively. Assessments include performance tasks, benchmarks, individual and group projects or presentations of learning, and unit and final exams. Instruction combines both California Common Core State Standards and Mathematical Practice standards in a college preparatory environment.

GPA Grading Guidelines:

Category	Grading Criteria	Percentage
Classwork/Participation	<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.



Course Materials: Interactive Journal (provided), pencils (2), eraser, highlighters (2), colored pens, scientific calculator, binder with math section in it.

Course Structure: This course will be lecture based after which students will be asked to complete an independent assignment such as a worksheet or computer based assignments. Students will be regularly assessed through syntheses of learning, quizzes, performance tasks, unit exams, and final exams.

Course of Study:

Quantities (Weeks 2-3)

Content Standards	Learning Objectives	Key Assignments/Exams
N-Q.1 N-Q.2 N-Q.3	<i>The Real Number System</i> <ul style="list-style-type: none">❑ Students will be able to extend the properties of exponents to rational numbers. Also, use the properties of rational and irrational numbers <i>Quantities</i> <ul style="list-style-type: none">❑ Students will be able to reason quantitatively and use units to solve problems	Unit Exam: September 15, 2017

Seeing Structure in Expressions (Weeks 4-5)

Content Standards	Learning Objectives	Key Assignments/Exams
A-SSE.1 (A,B)	<ul style="list-style-type: none">❑ Students will be able to interpret the structure of expressions.❑ Students will be able to write expressions in order to solve problems.	Unit Exam: September 29, 2017



Creating Equations (Weeks 6-7)

Content Standards	Learning Objectives	Key Assignments/Exams
A-CED.1 A-CED.2 A-CED.3 A-CED.4	<input type="checkbox"/> Students will be able to create equations that describe numbers and relationships.	Unit Exam: October 13, 2017

Reasoning with Equations and Inequalities (Weeks 8-10)

Content Standards	Learning Objectives	Key Assignments/Exams
A-REI.1 A-REI.3 A-REI.5 A-REI.6 A-REI.10 A-REI.11 A-REI.12	<input type="checkbox"/> Students will be able to understand and solve equations as a process of reasoning and explain their reasoning. <input type="checkbox"/> Students will be able to solve systems of equations <input type="checkbox"/> Students will be able to represent and solve equations and inequalities graphically	"Fantasy Football" Unit Exam: November 3, 2017

Functions (Weeks 11-16)

Content Standards	Learning Objectives	Key Assignments/Exams
F-IF.1 F-IF.2 F-IF.3 F-IF.4 F-IF.5 F-IF.6 F-IF.7 (A,E) F-IF.9	<input type="checkbox"/> Students will be able to understand the concept of a function and use function notation. <input type="checkbox"/> Students will be able to analyze functions using different representations.	Unit Exam: December 15, 2017



Building Functions (Weeks 20-23)

Content Standards	Learning Objectives	Key Assignments/Exams
F-BF.1 (A,B) F-BF.2 F-BF.3	<ul style="list-style-type: none">❑ Students will be able to build a function model that represents the relationship between two quantities❑ Students will be able to build new functions from existing functions	"Function Machine" Unit Exam: February 5, 2018

Linear, Quadratic and Exponential Models (Weeks 24-27)

Content Standards	Learning Objectives	Key Assignments/Exams
L-E.1 (A,B,C) L-E.2 L-E.3 L-E.5	<ul style="list-style-type: none">❑ Students will be able to construct and compare linear, quadratic and exponential models and solve problems	"Discovering Slope" "Skittles Lab" Unit Exam: March 2, 2018

Congruence (Week 28-34)

Content Standards	Learning Objectives	Key Assignments/Exams
G-CO.1 G-CO.2 G-CO.3 G-CO.4 G-CO.5 G-CO.6 G-CO.7 G-CO.8 G-CO.12 G-CO.13	<ul style="list-style-type: none">❑ Students will be able to experiment with transformations in the plane.❑ Students will understand congruence in terms of rigid motions.❑ Students will prove geometric theorems.❑ Students will make geometric constructions.	"Instagram Project" Unit Exam: April 20, 2018

Expressing Geometric Properties with Equations (Weeks 35-38)



Content Standards	Learning Objectives	Key Assignments/Exams
G-GPE.4 G-GPE.5 G-GPE.7	<input type="checkbox"/> Students will be able to use coordinates to prove simple geometric theorems algebraically	"Geometric Proofs" Unit Exam: May 18, 2018

Statistics (Weeks 39-44)

Content Standards	Learning Objectives	Key Assignments/Exams
S-ID.1 S-ID.2 S-ID.3 S-ID.5 S-ID.6 (A,B,C) S-ID.7 S-ID.8 S-ID.9	<input type="checkbox"/> Students will be able to summarize, represent and interpret data on a single count or measurement variable <input type="checkbox"/> Students will be able to summarize, represent and interpret data on two categorical and quantitative variables <input type="checkbox"/> Students will be able to interpret linear models	"Map Data Project" Unit Exam: June 21, 2018

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.

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

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.

Late Work Policy for All 9th Grade Classes:

- If you do not hand in your work on its due date, you must attend red list on that day and submit to your teacher the following day for full credit. If you submit your work the following day but do not show up for red list, you will receive 50% credit at best.
- If you attend red list, but turn in your work two days after the due date, you will receive 50% credit at best.
- If you try to hand in work three or more days late we will not accept it.

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

Improper MLA Heading will result in a 10% deduction on your assignment regardless of assignment point value.

Important Dates:

Quarter 1:

- Math Placement Test: August 29th - 30th
- Q1 Performance Task: September 27th
- Q1 Final Exam: October 26th - 27th
- Parent Conferences: October 23rd - 27th
- End Date: October 30th

Quarter 2:

- Q2 Performance Task: December 5th
- Q2 Final Exam: January 25th
- Parent Conferences: January 16 - 22
- End Date: January 31st

Quarter 3:

- Q3 Performance Task: March 13th
- Q3 Finals Week: April 12th
- Parent Conferences: April 16th - 20th
- End Date: April 23rd

Quarter 4:

- Q4 Performance Task: May 16th
- Q4 Finals Week: May 31st
- End Date: June 26th

Student Signature : _____ Parent/Guardian Signature: _____

Date: _____

