



Course Title: Accelerated 6th Grade Math

Instructor: Mrs. Felix

Instructor Availability: Tuesday and Thursday. 3:15pm -3:45pm.

Instructor Contact: mfelix@gomperscharter.org. Phone (619) 263-2171 ext. 2126. Room 26

Course Description:

The sixth grade math curriculum reinforces basic mathematical concepts and introduces new skills that are essential for all students. Topics that were previously learned are revisited and built upon. The 6th grade standards require students to study the following areas: rational numbers, algebraic thinking, proportional reasoning, statistics, data analysis, probability, and plane and solid shapes. Coursework and activities will be pulled from Math Links and various other Common Core resources. Curriculum and activities are all aligned with California state standards.

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: Number sense, multiplication and division facts 1- 12.

Course Materials: Readings, books, computer, access to internet, etc

Course Structure: In my class the following occur on a regular basis:



- Note taking from lecture
- Group work/collaboration
- Project-based learning
- Independent work
- Group discussion and debates to analyze multi-step problems

Course of Study:

Name of Unit (*Length of unit - 4 WEEKS - 8 LESSON*)

Content Standards	Learning Objectives	Key Assignments/Exams
4.NBT.B Use place value understanding and properties of operations to perform multi-digit arithmetic. 5.NBT.A Understand the place value system. 6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples. 6.EE.A Apply and extend previous understanding of arithmetic to algebraic expression.	<ol style="list-style-type: none">1. Applying Properties of Arithmetic2. Division with Remainder3. Standard Algorithms of Multiplication and Division	Math Links Packet 6-1 Quiz 1A or 1B
6.NS.B Compute Fluently with multi-digit numbers and find factors and multiples. 6.EE.A Apply and extend previous understandings of arithmetic expressions.	<ol style="list-style-type: none">1. Factors and Multiples2. Greatest common Factor and Least Common Multiple3. Numerical Expressions	Math Links Packet 6-2 Quiz 2A or 2B
4.NF.A Extend understanding of fraction equivalence and ordering.	<ol style="list-style-type: none">1. Explore Fraction concepts and equivalence2. Ordering Fractions on a Number Line3. Converting Fractions (mixed and improper)	Math Links Packet 6-3 Quiz 3A or 3B
4.NF.C Understand decimal notation for fractions, compare decimal fractions. 5.NBT.A Understand the place value system.	<ol style="list-style-type: none">1. Fractions and Decimals2. Decimal Place Value and Number Lines3. Fraction, Decimal, and Percents	Math Links 6-4 Quiz 4A or 4B



6.RP.A Understand ratio concepts and use reasoning to solve problems.		*Quarter 1 Final and Performance Task
6.SP.A Develop understanding of variability. 6.SP.B Summarize and describe distributions.	<ol style="list-style-type: none"> 1. Find Measures of center and spread for a data set. 2. Dot Plots, histograms, and Box Plots. 3. Describe the distribution of the data set. 4. Statistical Questions. 	Math Links Packet 6-5 Quiz 5A or 5 B
5.NF.A Use equivalent fractions as a strategy to add and subtract fractions. 6.NS.B Compute fluently with multi-digit numbers and find common factors and multiples.	<ol style="list-style-type: none"> 1. Equivalent Fractions 2. Fraction Addition 3. Fraction Subtraction 	Math Links Packet 6-6 Quiz 6A or 6B
5. NF.B Apply and extend previous understandings of multiplication and division to multiply and divide fractions. 6.NS.A Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	<ol style="list-style-type: none"> 1. Fraction Multiplication 2. Fraction Division 	Math Links Packet 6-7 Quiz 7A or 7B

Name of Unit (*Length of unit*)

Content Standards	Learning Objectives	Key Assignments/Exams
5.NBT.A Understand the place value system 5.NBT.B Perform operations with multi digit numbers with decimals 6.NS.B Fluently add, subtract, multiply, and divide multi digit decimals	<ol style="list-style-type: none"> 1. Add and Subtract multi-digit decimals 2. Multiply and Divide Decimals 	Math Links Packet 6-8 Quiz 8A or 8B Quarter 2- Finals and Performance Task
6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions 6.EE.B Reason about and solve	<ol style="list-style-type: none"> 1. Using variables in equations 2. Determining whether inequalities are true or false. 	Math Links Packet 6-9 Quiz 9A or 9B



<p>one-variable equations and inequalities. 6.EE.A Apply and extend previous understandings of arithmetic to algebraic expressions 6.EE.B Reason about and solve one variable equations and inequalities</p>	<p>3. Use substitution to make inequalities true. 1 Understand and use conventions for order of operations 2. Evaluate variable expressions 3. Use inverse operations to solve equations 4. Apply the distributive property to generate equivalent expressions.</p>	<p>Math Links Packet 6-10 Quiz 10A or 10B</p>
<p>6.RP.A Understand ratio concepts and use ratio reasoning to solve problems</p>	<p>1. Ratios - definitions and equivalents 2. Rate and unit rate 3. Relate Ratios and Unit Rates</p>	<p>Math Links Packet 6-11 Quiz 11A or 11B</p>
<p>6.RP.A Understand ratio concepts 6.RP.3c Find a percent of a quantity as a rate per 100 6.RP.3d Use ratio reasoning to convert measurement units</p>	<p>1. Measurement conversions 2. Understanding Percent of Numbers</p>	<p>Math Links Packet 6-12 Quiz 12A or 12B Quarter 3 - Final and Performance Task</p>
<p>6.G.A Solve real world and mathematical problems involving area, surface area and volume</p>	<p>1. Area of polygons 2. Volume 3. Surface Area</p>	<p>Math Links Packet 6-13 Quiz 13A or 13B Cereal Box Project - finding surface area and volume</p>
<p>6.NS.C Apply and Extend previous understandings of numbers to the system of rational numbers 6.EE.B</p>	<p>1. Representing and comparing Integers on the number line 2. Opposites and Absolute Value</p>	<p>Math Links Packet 6-14 Quiz 14A or 14B</p>
<p>6.RP.2-9 Applications of proportional reasoning 6.EE.4 Dependent and Independent Variables</p>	<p>1. Proportional reasoning 2. Dependent and Independent variables</p>	<p>Math Links Packet 16.1, 16.2, 16.3 Quiz 16A or 16B</p>
<p>6.NS.6abc Graphing points, coordinates, reflections</p>	<p>1. Graphing points on the coordinate plane</p>	<p>Math Links Packet 15.1, 15.2, 15.4</p>



	<ol style="list-style-type: none"> 2. Reflections 3. Rationals 	Quiz 15A or 15B
7.NS1 abcd Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers.	<ol style="list-style-type: none"> 1. Integer models 2. Integers addition and subtraction on a numberline 3. Rational Numbers 	Math Links Packet 7- 4 Quiz 7-4A or 7-4B
7.NS.2abc Apply and extend previous understanding of multiplication and division to multiply and divide rational numbers.	<ol style="list-style-type: none"> 1. Integer Multiplication Models 2. Integer Multiplication and division patterns 3. Reasoning about Products and Quotients 	Math Links Packet 7- 6 Quiz 7-6A or 7-6B
7.RP1 Compute unit rates 7.RP2 Proportional relationships 7.EE.3 Solve multi-step real life math problems with positive and negative rational numbers	<ol style="list-style-type: none"> 1. Introduce Probability. Understand that the probability of a chance of an event is between 0 and 1. 2. Collect data, make predictions 3. Flips, rolls, and fair game 	Math Links Packet 7-7 Quiz 7-7A or 7-7B
6. EE.3 Generate equivalent expressions 6.EE.4 Identify two equivalent expressions 6.EE.6 Use variables to represent numbers and write expressions 7.NS.3 Solve problems with four operations 7.EE.1, 2,3	<ol style="list-style-type: none"> 1. Write, evaluate, and simplify expressions 2. Make conjectures about number patterns 3. Write algebraic expressions and equations 	Math Links Packet 7- 8 Quiz 7-8A or 7-8B
6.EE.2a, 3,5,6,7 7.EE.1, 3, 4a Linear expressions with rational coefficients. Multi-step problems Construct simple equations and inequalities.	<ol style="list-style-type: none"> 1. Solve equations mentally 2. Solve problems involving geometry 3. Balance strategies 	Math Links Packet 7- 9 Quiz 7-9A or 7-9B
7.EE.4b Solve real-life and mathematical problems using numeric and algebraic expressions and equations	<ol style="list-style-type: none"> 1. Write expressions, equations, and inequalities 2. Graph solutions to inequalities 	Math Links Packet 7- 10 Quiz 7-10A or 7-10B



	<ol style="list-style-type: none">3. Graph solutions4. Use inequalities to solve problems	
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Course Specific Student Expectations:

- Explain mathematical ideas clearly
- Reason and think about problems
- Persist and make sense of problems
- Cooperate and respect with other's reasoning
- Reflect on personal learning growth

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: _____

