



Lois & Jerry Tarkanian Middle School

Mathematics Accelerated 6

Mrs. Gelman, Mr. Iverson, and Ms. Watts

I. Course Scope:

This one-year course is designed to prepare students for the increased rigor of the Common Core State Standards (CCSS) Algebra I in middle school. This compacted course includes the grade six curriculum as well as a portion of the currently adopted CCSS grade seven curriculum. This course focuses on 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. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The use of manipulatives, mathematical tools, and technology, including calculators and computer software, is an integral part of this course. This course fulfills the mathematics requirement for sixth-grade students.

II. Course Goals:

1. To develop the Standards for Mathematical Practice. [CCSS]
2. Apply and extend previous understandings of multiplication and division to divide fractions by fractions. [CCSS: 6.NS]
3. Compute fluently with multi-digit numbers and find common factors and multiples. [CCSS: 6.NS]
4. Apply and extend previous understandings of numbers to the system of rational numbers. [CCSS: 6.NS]
5. Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide with rational numbers. [CCSS: 7.NS]
6. Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate. [CCSS: 6.NS]
7. Develop understanding of statistical variability. [CCSS: 6.SP]
8. Summarize and describe distributions. [CCSS: 6.SP]
9. Understand ratio concepts and use ratio reasoning to solve problems. [CCSS: 6.RP]
10. Analyze proportional relationships and use them to solve real-world and mathematical problems. [CCSS: 7.RP]
11. Apply and extend previous understandings of arithmetic to algebraic expressions. [CCSS: 6.EE]
12. Reason about and solve one-variable equations and inequalities. [CCSS: 6.EE]
13. Represent and analyze quantitative relationships between dependent and independent

variables. [CCSS: 6.EE]

14. To use properties of operations to generate equivalent expressions. [CCSS: 7.EE]
15. Solve real-world and mathematical problems involving area, surface area, and volume. [CCSS: 6.G]

III. **Textbook**

The textbook for this course is Glencoe Mathematics Course 1 Volumes 1 & 2. Textbooks will be assigned to each student for his/her personal use. Each student is responsible for the care and protection of assigned textbooks and will be required to reimburse the school (\$10.00 per book) for loss of the textbook or damage that interferes with the usage of the textbook.

IV. **Student Progress**

Grade Weighting

Assessments: 70%
Tests & Quizzes

Assignments: 30%
Classwork (20%) & Homework (10%)

Semester One Weighting

Quarter One	40%
Quarter Two	40%
Exam	20%

Semester Two Weighting

Quarter Three	40%
Quarter Four	40%
Exam	20%

V. **Materials**

The list of suggested school supplies for each student is provided in the student planner. In addition to these supplies, this course requests the following additional material:

- 2 Composition notebooks (1 per semester) – Iverson & Watts
- 1 ½ binder - Gelman
- Sharpened pencils with erasers; mechanical pencils are allowed
- Correcting Pen – Red or Green
- Highlighters (4 different colors)
- Ear buds

VI. **Policies**

A. Late Work

- Late work will receive a maximum score of a “B” and will not be accepted after each chapter test. Any assignment not submitted will remain “missing” which equates to a score of 0% in the grade book.
- Every three missing assignments will result in the loss of one level of citizenship. This includes homework (given Monday – Thursday), ALEKS topics, and classwork.
 - 0-2 missing assignments = O (Outstanding)
 - 3-5 missing assignments = S (Satisfactory)
 - 6-8 missing assignments = N (Needs Improvement)
 - 9 or more missing assignments = U (Unsatisfactory)
- **It is your child’s responsibility to retrieve any missing notes and assignments from Google Classroom. This includes work resulting from absences.**