

# Integrated Math 7



**The Eastlake Middle School community will provide a positive and safe school culture where each student is empowered to grow emotionally and develop academically leading to resiliency and life-long success.**

## Course Description

As students enter grade seven, they have an understanding of variables and how to apply properties of operations to write and solve simple one-step equations. They are fluent in all positive rational number operations. Students who are entering grade seven have been introduced to ratio concepts and applications, concepts of negative rational numbers, absolute value, and all four quadrants of the coordinate plane. They have a solid foundation for understanding area, surface area, and volume of geometric figures and have been introduced to statistical variability and distributions

The Integrated Mathematics 7 course focuses on four critical areas: (1) developing understanding of and applying proportional relationships, including percentages; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems that involve scale drawings and informal geometric constructions and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples. Students also work toward fluently solving equations of the form  $px + q = r$  and  $p(x + q) = r$ . The course emphasizes reasoning, critical analysis, mathematical modeling, and gathering evidence. Students are active participants in their learning and often work collaboratively. The problem-based nature of lessons provides guided, purposeful work that supports deep conceptual understanding of the mathematics.

## Course Pacing Guide and Topics

Semester 1	Semester 2
Area	Solving Word Problems
Probability	Writing and Solving Equations
Fraction/Decimal/Percent Conversions	No Solution or Infinite Solutions
Operations with Fractions	Solving and Graphing Inequalities
Operations with Integers	Distance, Rate, and Time
Operations with Decimals	Scaling Quantities
Graphing and Displaying Data	Solving Various Percent Problems
Proportional Relationships (unit rate, equation, table, graph)	Simple Interest
Similar Figures and Scale Drawings	Solving Decimal/ Fraction Equations
Order of Operations	Using Proportions to Solve Problems
Distributive Property	Box Plots/Stem & Leaf/Histograms
Combining Like Terms	Angle Relationships
Percents	Area & Circumference of Circles
	Surface Area & Volume of Prisms

## Grading Policy

Students have multiple opportunities to demonstrate mastery of material. Scholarship grades are based on the cumulative average as follows:

### **Homework – 5%**

- Essential independent practice
- Prepares students for tests
- Practice assigned each Friday and due the following Friday
- Graded together in class for accuracy
- Usually titled “Review & Preview”
- HW Help available online at ebooks.cpm.org (students have an account)
- If incomplete or absent on Friday, student needs to see teacher to grade assignment
- Must have ALL work shown for credit
- Students can redo an assignment to raise the score

### **Classwork – 25%**

- Participation Quizzes
- Learning Logs
- Chapter Closure
- Other in-class assignments

### **Assessments – 70%**

- Tests are cumulative and cover multiple topics and chapters
- No retakes
- Successful completion of the Test Revisions assignment allows the next unit test to automatically raise current test score, if it is higher

**Citizenship** – Citizenship grades are based on participation, promptness to class, attendance, classroom behavior, following directions and school rules, and preparedness for class (including completion of assignments).

**\*\*\*Please access JupiterGrades regularly to track student progress.**

<https://login.jupitered.com>

## Support Systems

**Triton Time:** ELM offers tutoring in the library before and/or after school. Refer to the schedule on the ELM website or hardcopies are provided in the Counseling Center.

**Triton Study Period (TSP):** TSP was developed as an opportunity for students to acquire extra academic help, seek out teachers on a one-on-one basis, and to complete assignments. TSP is a required part of the instructional program where attendance is taken daily and is required.

**Pass-Through:** Students who score below 60% on assessment may be sent to Pass-Through during their lunch. They will receive re-teaching of concepts and be provided with an opportunity to raise their test score.

**Homework Help:** The textbook provides assistance for the Review and Preview section, which is typically assigned as the homework. Every homework problem has a link to the Homework Help for that problem.

Homework Help may provide: Hints, Steps, Answers, and Interactive eTools

<http://homework.cpm.org>

**Parent Guide:** The Parent Guide is provided by the textbook company at the link below. It provides examples worked out and explained, as well as extra practice problems with answers

[https://pdfs.cpm.org/CoreConnections/ParentGuide/cc2/CC2\\_PG.pdf](https://pdfs.cpm.org/CoreConnections/ParentGuide/cc2/CC2_PG.pdf)

Additional CPM Information available at <https://cpm.org/parent-support>. We are using the Common Core 2 textbook.

## Additional Resources

- **Khan Academy:** Khan Academy offers practice exercises, instructional videos, and a personalized learning dashboard that empower learners to study at their own pace in and outside of the classroom.
- **BuzzMath (Middle School):** Buzzmath is an online math program for middle school students. It's different from other online math programs because it incorporates interaction and conceptual activities needed to develop an understanding to mathematical skill and standards. Parents can track their child's progress while students enjoy this game-based approach to learning math while earning points and badges