

Compacted IM7



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

The Compacted Integrated Math 7 course allows students the opportunity to complete Integrated Math 7, Integrated Math 8, and Integrated Math I content in 2 years rather than 3. Since students will be completing 3 years of math in only 2 years, students need to be able to be successful with a faster pace of learning. Student maturity, work ethic, and a solid foundation of basic skills, are key indicators of success in this course.

*****Students who have below 70% for overall grade or assessment average may be placed in Integrated Math 7.**

The content of Compacted Integrated Mathematics 7 focuses on: (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. The additional 8th grade standards include understanding multiple representations of functions, working with integer exponents, and solving more complex equations and 3-D geometry problems.

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	More Linear Equations
Probability	Solving Word Problems
Fraction/Decimal/Percent Conversions	Distance, Rate, and Time
Operations with Rational Numbers	Scaling Quantities
Graphing and Displaying Data	Solving Various Percent Problems
Proportional Relationships	Simple Interest
(unit rate, equation, table, graph)	Solving Decimal/ Fraction Equations
Similar Figures and Scale Drawings	Using Proportions to Solve Problems
Order of Operations	Box Plots/Stem & Leaf/Histograms
Distributive Property	Angle Relationships
Percents	Area & Circumference of Circles
Solving Word Problems	Surface Area & Volume of Prisms
Writing and Solving Equations	Surface Area & Volume of Cylinders
No Solution or Infinite Solutions	Volume of Cones & Pyramids
Solving and Graphing Inequalities	Scientific Notation & Exponents
Graphing Linear Equations	Pythagorean Theorem

Grading Policy

Students have multiple opportunities to demonstrate mastery of material. **Students who struggle in this course may be placed in Integrated Math 7.** 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 – 20%

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

Assessments – 75%

- 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.

The Textbooks for this course are CPM: [Core Connections Course 2](#) and [Core Connections Course 3](#)

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

<https://homework.cpm.org/cpm-homework/homework/category/CC/textbook/CC2>

<https://homework.cpm.org/cpm-homework/homework/category/CC/textbook/CC3>

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/cc3/CC3_PG.pdf

Additional CPM Information available at <https://cpm.org/parent-support>.

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.