



**8<sup>th</sup> Grade Math 2023-2024**  
Mrs. Eppolito, Room 204

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I am very excited for the upcoming school year! Every year more mathematics is needed to be successful in nearly every job or profession. The skills learned will be part of your preparation for college and career readiness. We will be using the Common Core State Standards for Mathematics (CCSSM). These standards are broken up into two categories: the practice standards and the content standards. The eight Standards of Mathematical Practice (SMP's) are "HOW" students demonstrate their understanding. The content specific standards are "WHAT" mathematical concepts and procedures students will be learning.

What can you expect from this class? This course is built around problems and exercises. You will spend much of your time discussing problems in class to develop concepts and mathematical rules from patterns. Every minute of class time is valuable so be prepared to work the full period daily. This course:

- Deals with some of the major concepts of high school Algebra: variable operations and symbol sense, coordinate graphing, functions, solving equations, inequalities, and systems of equations.
- Introduces the Geometry topics of transformations, similarity, Pythagorean Theorem, surface area and volume.
- Emphasizes the interrelationship of data patterns, equations and graphs through Statistics.
- Prepares you for future high school math and science coursework.
- **Emphasizes understanding mathematics** as well as developing practical life skills.

The expectation is that you will learn to increase your mathematical thinking skills and be able to clearly communicate what you know. You will develop a broader collection of techniques and strategies that will enable you to tackle more complex problems.

You will learn to do what computers and calculators cannot do:

- Solve and write algebraic equations from words, geometric figures and diagrams.
- Describe, analyze and compare sets of data.
- Relate solutions of equations to their graphs.

No one can successfully play a sport by just watching others play nor can they understand the game without talking about it. Likewise, the only way you can become good at mathematics is by doing problems and talking about them with your classmates and at home. If you do both, you will learn more mathematics and you will probably find that it is not only useful, but fun!

## **Learning Expectations**

- Attend class daily and on time.
- Engage in the learning process.
- Provide the respect for your peers and teacher that you wish to receive.
- Advocate for yourself by asking questions when you are struggling and know that it is okay to struggle and be confused.

## **Supplies**

Please bring these materials to class daily:

- Folder & Journal
- Ruler
- Colored pen/pencil
- Sharpened pencils

Later in the course a calculator will be helpful, but not required.

Your textbook, CPM Core Connections Course 3, will remain at school for now. A Carnegie MATHbook consumable will be available in the classroom, and an ebook will be available online.

## **Practice Work**

Math practice will be assigned most days. The majority of our math work will be done using pencil and paper; showing all work is expected. If you are absent, it is your responsibility to make up the missed work. See Google Classroom, my ACMS website, whiteboard (in the classroom) or a classmate to find the assignments. It is YOUR responsibility to remember to turn in make-up work. Please don't fall behind on your assignments as the topics tend to build upon previous material. All lessons will be organized in a folder. You will be given module/topic logs, resource pages, and folders for each topic. As you complete a lesson, it is your responsibility to correct and place the papers into the folder in chronological order. The folders will be turned in and graded at the end of each module topic.

## **Assessments**

Assessments provide valuable feedback to teachers, students and parents. All tests will be announced in advance (no surprises). There is an end of topic assessment for each module.

## **Grading**

Your grade will be a combination of formative assignments (independent practice, group work, class work) and summative assessments (module and topic test, quiz, project, presentation). Mid-trimester progress as well as trimester progress will appear as follows:

4.0	Exceeds standard at this time.
3.0	Meeting standard at this time.
2.0	Approaching standard at this time.
1.0	Below standard at this time.

## Class Expectations

- ✓ Please respect the rights of others.
- ✓ Please stay on task; limit talking to group work times.
- ✓ Please get permission before leaving your seat.
- ✓ When the start bell rings, please have your lesson and supplies out and be ready for class.
  
- ✓ Please learn and have FUN!

Math class is structured in a way to foster student understanding, as long as there is an effort on the part of the student. The math program works under the following research-based assumptions:

- Students learn ideas **more deeply** when they discuss ideas with classmates (cooperative learning).
- Students learn ideas **more usefully** when they learn by attacking problems - ideally from the real world (problem-based learning).
- Students learn ideas **more permanently** when they are required to engage and re-engage with the ideas for months or even years (mixed, spaced practice).

Content mastery might not (probably won't) occur upon completion of the day's lesson. For this reason, it is important for students to develop strong work habits in order to benefit from the repeated practice that progressively builds in difficulty.

Your success is important and I will do my best to support you. Help is available during class and by appointment. Just ask!

Please acknowledge that you have read this math class description by signing below and returning this page to Mrs. Eppolito by September 1st. Thank you.

Student: \_\_\_\_\_

Parent: \_\_\_\_\_

