

# 7<sup>th</sup> Grade Pre-Algebra

Mrs. Paff

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## Expectations, Requirements, and Information

**You can expect to have class follow this format on most days:**

1. **Problem of the Day** – open ended, thinking and explaining problem where you will apply current skills to answer a problem, and be required to explain or justify your answer. Your response will be submitted in google classroom. This problem will be posted before class each day and will take the place of a traditional math “warm-up.” You will need to complete and submit it before midnight each day in order to receive credit for completing it. You will receive 2 points for completing this assignment on time and with effort. Answers such as “IDK” or “???” will not receive credit. You can earn an extra credit point for giving a correct and well explained answer. You will be responsible for understanding the next day’s explanation of the problem, and can expect to see similar type of problems on a test or quiz.
2. **Pre-recorded Lesson of the Day** – a screencast of a lesson for whatever topic we are currently working on. This lesson will start with reviewing the previous day’s Problem of the Day, and will also go over any questions students submitted in their exit tickets, and any screen shots of problems students were stuck on in Get More Math. This lesson will be recorded and placed in google classroom ahead of the start of class, and will be played during the first part of class. I will pause the recording after each example to see if students have questions. You will need to complete an exit ticket after viewing each lesson.
3. **Get More Math or Big Ideas assignment to practice newly learned skills** – most of this practice will take place during class, and I will be available to take your questions live during our class period. I will set a goal for the number of points you need to get in Get More Math each day. When you are practicing a new skill in Get More Math, I will leave that assignment up and not switch the class to mixed review until 2:30 so that you have an opportunity to get help during ISTA if you need it. You normally will earn your GMM points by completing the assignment and getting points in mixed review. I will give you a grade for GMM assignments weekly, and will let you know what your weekly total needs to be. This will enable you to get help if you are stuck and don’t achieve the daily goal one day. You will be able to get help and then make up the points you missed.
4. **Exit Ticket** – you will need to answer some basic questions from the lesson, and will have the opportunity to let me know if there are still some things that you don’t understand. It is a requirement that this exit ticket be completed in order for you to receive credit for attending class.

### Class Participation

In order to be successful in class, you will need to be an active participant. You will need to ask questions when you are confused, either during the lesson, or when you are working independently. If you get stuck in GMM outside of class time, the best thing to do is to screenshot the problem and email me.

## **Quizzes**

You will take quizzes to assess your knowledge of a given topic before we go further into that topic. This gives you the opportunity to assess how well you have mastered the current concepts so far, and the chance to get additional help if you need it. Quizzes will be given on an approximately weekly basis. You will be given several days advance notice before a quiz.

## **Tests**

You will take tests once a curricular unit has been completed. Included in the test material will be parts of the topic that you have previously been quizzed on. This will provide you with another opportunity to show that you have mastered the unit's concepts. You will be given approximately a week's notice before a test.

## **Grading System**

Your grade for the marking period will be based on the total points earned for the quarter, divided by the total possible points. Assignments will be weighted by the number of possible points allocated to it. You will be earning points for Problems of the Day, Get More Math assignments for the week, and for quizzes and tests.

## **Missed Classes**

If you are able to attend during the scheduled class time for any reason, it is your responsibility to review the lesson you missed and work on any assignments for that day. Be sure to check the 7th Grade Assignments Calendar (accessible from any 7th grade teacher's webpage) to see what work you missed, as well as your Google Classroom for the lesson, Problem of the Day, and exit ticket.

If you are absent on the day of a quiz or test, you should be prepared to take the quiz or test upon your return to school. Likewise, any assignments or homework due while you were absent should be turned in the day you return.

## **Getting Additional Help**

You have several ways to seek additional help if you feel you are struggling or confused. First, let me know right away if you are confused. Ask questions in class if you don't understand something we are doing. If you have questions once you leave class, you can email me with questions, or you can attend a help session during ISTA.

## **Course Content Covered**

### **Textbook**

*Big Ideas Math Accelerated: A Common Core Curriculum* Big Ideas Learning, LLC. 2014

**Online textbook and resources:** <http://bigideasmath.com>

*Get More Math:* <https://gmm.getmoremath.com/>

### **Ratios and Proportional Relationships**

- Unit rates with ratios of fractions
- Recognize and represent proportional relationships between quantities
- Solve multistep ratio and percent problems

### **The Number System**

- Represent addition and subtraction of rational numbers on a number line
- Understand absolute value and additive inverses, and use in real life situations
- Apply properties of operations to perform mathematical operations on rational numbers
- Convert rational numbers to decimals

**Expressions and Equations**

- Use properties of operations to generate equivalent expressions
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations
- Use variables to represent quantities in a real-world or mathematical problem
- Construct simple equations and inequalities to solve problems by reasoning about quantities

**Geometry**

- Draw, construct, and describe geometrical figures and describe the relationships between them
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume

**Statistics and Probability**

- Use random sampling to draw inferences about a population
- Draw informal comparative inferences about two populations
- Investigate chance processes and develop, use, and evaluate probability models