

Geometry

MRS. REBECCA NELSEN

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Course Description

Geometry is the branch of math that deals with points, lines, angles, planes, and the 2 and 3 dimensional figures that can be formed from them. First semester we will focus mainly on angles formed by intersecting lines, congruence, and properties of triangles and quadrilaterals. Second semester, we will cover similarity, right triangle trigonometry, circles, area, surface area, volume, and probability. Throughout the whole course, we will be focusing on developing critical thinking skills including problem solving, explaining your reasoning, proving things are true, and collaborating with others.

Materials to Bring to Class

- PENCIL
- FOLDER
- NOTEBOOK OR BINDER WITH PAPER
- SCIENTIFIC CALCULATOR
- LAPTOP

Class Expectations

- SHOW RESPECT FOR OUR CLASSROOM AND THE PEOPLE IN IT.
- BE AN ACTIVE LEARNER.
- COME PREPARED TO WORK.



Class Routine

- **CELL PHONE POCKETS** – I do not allow phones in class. You either need to leave it in your locker or put it in the pockets on the wall when you enter the room.
- **WARM-UP PROBLEM** – A problem or set of problems will be on the board when you enter the classroom. Keep a sheet of paper dedicated to warm-up problems in your notebook or folder. During the first few minutes of class, write the date on your paper followed by your answers. I collect the warm-up papers at midterm and the end of each quarter and give extra credit points for completing all of them.
- **ASSIGNMENT REVIEW** – We will discuss the previous days assignment and do together any problems anyone has questions on. Turn in assignments to the paper trays on the back table.
- **LESSON/NOTES/CLASS ACTIVITY** – Most of our class time will be filled with either investigative activities using your computers or other supplies or a lesson to explain important information. During lessons, you will be responsible for filling in your note-taking guide. Your note-taking guide will not be graded, but you can use it on all quizzes and the semester test.
- **ASSIGNMENT** – Most days, class will end with some type of assignment to practice what was learned and help commit it to memory. Usually, 10-15 minutes will be left in class for you to work on your assignment.

Textbook

Our textbook is *Pearson Common Core Geometry*. We will be using the textbook very rarely for assignments, but it is a good resource if you want to review any material or look at worked out practice problems. It is available to you in 2 different ways.

1. Check out a textbook from the classroom shelf. I will need to write down the book number.
2. Go to the website www.pearsonrealize.com.

LOGIN: geometry_VHS

PASSWORD: mathisnumber1

Click on the “classes” tab, and then choose “Geometry Accessible Student Edition” from the list of tools.

Grading Breakdown

QUARTER GRADES

25% - Daily work/Projects

75% - Concept Quizzes

SEMESTER GRADES

45% - Quarter 1 Grade

45% - Quarter 2 Grade

10% - Semester Test

Assignments

To learn math, you must DO math. The assignments give you the opportunity to practice what we learned that day. For most concepts, you will have a worksheet which we will complete a section of each day. I will take questions on the assigned problems the next day in class. The assignment is due on the day that we take the quiz for that concept. If you don't turn in an assignment, it will be marked as missing in the grade book. Each assignment will have a score from 1-3, and 1 point will be docked for late work.

Score	Rationale
1	The assignment is very incomplete, missing work and explanations, or shows serious misconceptions and lack of understanding.
2	The assignment is partially incomplete, is missing some work or explanations, or shows one or more minor misconceptions.
3	The assignment is totally completed, shows the students thinking for each problem with work or explanations, and shows solid understanding of the topic.

Concept Quizzes

Instead of chapters, our class content has been divided up into concepts. We will usually have one quiz per week covering whatever concept we have just finished. The quiz will have 3-6 questions: 1-3 questions at a proficient level, 1-3 questions at an advanced level, and 1 question at a mastery level. Your quiz will receive a grade somewhere from 5-10. I will be grading as much for clear understanding as for accuracy.

Score	Meaning	Rationale
5	INCOMPLETE	The learner has not provided enough evidence to assess proficiency.
6	NOT YET	The learner has provided evidence for assessment but does not yet demonstrate understanding of specific knowledge and skills.
7	EMERGING	The learner has demonstrated a beginning understanding of the specific knowledge and skills.
8	PROFICIENT	The learner has demonstrated understanding of the specific knowledge and skills.
9	ADVANCED	The learner has demonstrated outstanding scholarship and fluent understanding of the specific knowledge and skills.
10	MASTERY	The learner has demonstrated the highest level of conceptual and procedural understanding of the specific knowledge and skills.

Quiz retakes

You will have one in-class opportunity to retake each concept after the next week's quiz. If you choose to do a retake, the higher grade will always be kept. If you want to retake a concept a 2nd time, you are welcome to come in during study hall or before/after school. If you are coming in to do a 2nd retake, I will require you to complete a short quiz practice sheet on the concept before retaking it. I am happy to help you with the practice sheet, but then you will need to wait until the next day to do the retake. Quizzes can be retaken as many times as necessary up until the end of the quarter. I choose to assess this way so that you have a chance to keep working toward mastery. If you don't understand something right away, it doesn't mean you never will. It just means you need to keep trying and keep learning!

Extra Help

I am always available before school at 8:00, after school until 4:00, and during 7th period. Also, during the Thursday morning help time from 8:30-10:00. Please let me know if you need anything!