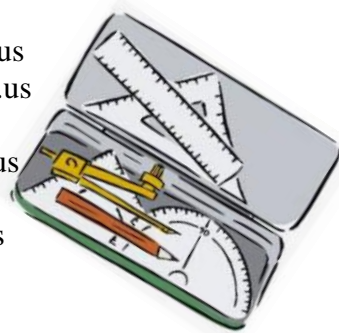


Geometry Syllabus for 2019-2020

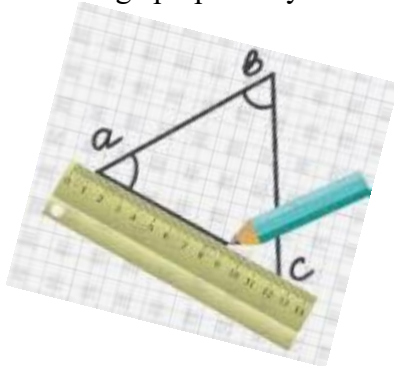
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Course Description

Roosevelt's Geometry course is a college preparatory mathematics course. In this course, we will investigate the following units:

1. Lines and Angles
2. Triangles Part 1
3. Triangles Part 2
4. Quadrilaterals
5. Polygons
6. Circles
7. Solids



In each unit, students will...

- Expand their academic math vocabulary through interactive tasks/problems/projects.
- Build their mathematical skill toolbox.
- Investigate the properties of geometric objects and the relationships between them.
- Improve oral and written mathematical communication skills, including the fundamentals of writing mathematical proofs.
- Develop their algebra skills through applied geometric problems.
- Engage in exploratory and hands-on tasks to build deep understanding of geometry concepts.
- Build 2D and 3D visualization skills.
- Create projects that require connecting and applying diverse mathematical skills.

Geometry at its core is different than other math courses students have encountered, therefore the way we learn geometry may feel unique and challenging.

Attendance: It is important to be in class on time every day. If a student misses class *it is the student's responsibility* to check-in with their teacher or look on google classroom for any notes/work that took place in class that day.

Classroom materials: Each day students will need a writing utensil and a math specific notebook.

Homework: Geometry is a demanding course and requires that practice/homework be completed daily. Students are expected to bring any questions related to homework to class.

- Homework is given out on the first day of the week to be done daily.
- Homework will be checked and reviewed daily.
- Homework should be done daily and turned in the last day of the week.

Grading: Geometry is an IB Middle Years Program (MYP) course. MYP courses, and their assessments, are designed to develop the whole student. In mathematics, that means not just calculation, but also conceptual understanding, pattern investigation, communication, and real-world application.

- **Overall Grade:** Your overall grade will be based on your work in three categories: Practice/Formative Work, Summative quizzes, Summative MYP Assessments. See the RHS grade scale on the right.
- **Formative work (20% of overall grade):** Practice is the foundation of studying mathematics. In this category, you will earn credit for your participation in activities, warm-ups, classwork, and homework. Work in this category is graded based on effort and completeness, not correctness. This is a place to make mistakes and learn from them!

On your formative work, you will see:

- 2 (completely done – 100%)
- 1 (partially done – 50%)
- 0 (not done)

- **Summative quizzes (30% of overall grade):** Quizzes are an opportunity for students to receive feedback on their understanding. Grades in this category are based on your understanding of **learning targets**, which are the topics we will learn this year. You can expect to learn about 6-10 learning targets per quarter. This is a chance to get specific feedback on your learning! Grades in summative categories will be awarded according to the MYP rubric on the right.
- **Summative MYP assessments (50% of overall grade):** Summative MYP assessments happen less frequently. MYP assessments may focus on knowledge and understanding of learning targets, pattern investigation, mathematical communication, and real-world applications. Grades in summative categories will be awarded according to the MYP rubric on the right.
- **Retake and late work policy:**
 - Classwork may be handed in late or redone for full credit.
 - Daily homework may not be turned in late.
 - Quizzes may be retaken for a higher learning target score. Students must show that they have prepared for a retake.
 - MYP assessments may not be retaken. Students with an *excused* absence on assessment day may schedule a retake for full credit with the teacher, before mid-quarter or end of quarter as applicable.

RHS Mathematics Grade Scale	
Letter Grade	Minimum Percent of Credit Earned
A	80%
A-	74%
B+	68%
B	62%
B-	56%
C+	50%
C	44%
C-	38%
D+	32%
D	26%
D-	20%
F	0%

MYP Grade	Descriptor
8	Perfect score. Produces high-quality work that frequently uses mathematics insightfully.
7	Produces high-quality work that frequently uses mathematics insightfully.
6	Produces high-quality, occasionally insightful mathematical work.
5	Produces generally high-quality mathematical work.
4	Produces good-quality mathematical work.
3	Produces mathematical work of an acceptable quality.
2	Produces mathematical work of limited quality.
1	Produces work of a very limited quality.
0	Produces work that does not meet any of the above criteria.

Ethical Practice- Academic Honesty: Students engaged in academic dishonesty will be penalized on the assignment, may be given the opportunity to resubmit the assignment for credit, and they will be reported to their dean for disciplinary action and Administration if applicable.

Academic Dishonesty includes, but is not limited to:

- cheating on assignments or tests
- plagiarizing (misrepresenting as one's own anything done by another)
- submitting the same or substantially similar papers or creative work for more than one course without consent of all instructors concerned
- depriving another of necessary course materials
- sabotaging another's work
- colluding to support malpractice by another student
- To avoid plagiarism, words and ideas used to support one's argument **MUST** be acknowledged in all journals, papers and presentations. Passages that are quoted verbatim must be enclosed within quotation marks and the author must be acknowledged. Electronic media (websites, etc.) must be treated the same way as books and journals, and the sources of all photographs, maps, illustrations, etc. must also be acknowledged if not your own work.

Behavior: Students are expected to be responsible for their own behavior.

- We will follow the RHS tardy and cell phone policies. All classrooms will be a red zone, meaning no cell phones unless being used for educational purposes. If cell phones are seen out in the classroom a dean will be called and the phone will be confiscated for the day.
- No passes will be issued during the first or last 10 minutes of the class.

Math Resources:

- After school math help in room 321 (Tuesday, Wednesday and Thursday until 4)
- Delta Math
- YouTube
- Minneapolis Public Libraries
- <https://www.mathsisfun.com/geometry/plane-geometry.html>
- <http://www.artofproblemsolving.com/videos/algebra1>

We are looking forward to a great year of fun and mathematical growth!