

FREEPORT



Yellow Jackets

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Syllabus – Geometry

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Welcome to Geometry!

This course extends students' knowledge and understanding of geometry by studying topics such as congruence and similarity, and applies properties of lines, triangles, quadrilateral, and circles. Students will also develop problem solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems.

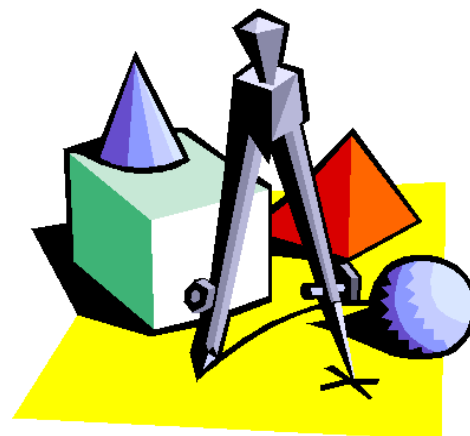
We will be completing activities and using various manipulatives to help students gain a deeper knowledge of the mathematical concepts.

Lessons are structured for student participation and collaboration. Real – world problems and where math is used and seen in everyday life will be a strong focus.

The homework of each lesson reinforces previously learned skills and concepts and prepares students for new ones. The homework problems also allow students to apply previously learned concepts and skills in new contexts and deepen their understanding by solving the same type of problems in different ways.

Tantalizing Topics

Throughout this year, we will explore various topics in geometry.



Topics to be covered include:

1. Basics of Geometry
2. Perpendicular and Parallel Lines
3. Congruent Triangles
4. Properties of Triangles
5. Quadrilaterals
6. Transformations
7. Similarity
8. Right Triangles and Trigonometry
9. Circles
10. Area of Polygons
11. Surface Area and Volume
12. Reasoning and Proof

Profound Progress

At the end of this year, specifically you should be able to:

- ✓ Describe a pattern in a sequence of numbers.
- ✓ Use the distance formula.
- ✓ Classify angles.
- ✓ Find the coordinates of the midpoint of a segment.
- ✓ Write biconditional statements.
- ✓ Write a two column proof.
- ✓ Create a flow proof.
- ✓ Find the measures of angles.
- ✓ Use properties of parallel lines.
- ✓ Determine if lines are perpendicular.
- ✓ Prove triangles are congruent.
- ✓ Use the bisectors of triangles to find segment length.
- ✓ Use properties of parallelogram, rhombuses, rectangles, squares, trapezoids, and kites.
- ✓ Determine reflections, rotations, translations of figures.
- ✓ Prove triangles are similar.
- ✓ Identify dilation and scale factor of various figures.

- ✓ Use the Pythagorean Theorem and special right triangles to find side length.
- ✓ Use trigonometric ratios.
- ✓ Use the tangent of a circle to find segment length.

Great Grades

Your grade will be based on points earned from homework, notebook checks, quizzes, tests, and other projects as assigned.

The grading scale for this class can be found in your student handbook.

Homework Grades

Homework will be assigned daily. Homework will be randomly checked or collected for completion or correctness. **NO LATE HOMEWORK IS ACCEPTED.**

Notebook Checks

Notebook checks will be given each nine weeks. Students will show organization by producing certain notes and homework assignments.

Quizzes

Quizzes will be given periodically throughout the chapter and may or may not be announced.

Tests

Tests will occur after a chapter is completed and allows the students to show their ability to solve mathematical problems, on their level of skill mastery and on their conceptual understanding of topics or ideas.

Projects

Projects may be assigned throughout the year in order to study geometry in greater depth.

Essential Expectations

Since students will be working closely with other members of the class, it is imperative that all students follow these expectations:

- 1. Be on time and prepared with all materials including your book, notebook, homework, and a pencil. All submitted work must be completed in pencil.**
- 2. Be attentive to the teacher and other students when they are speaking and respond as appropriate.**
- 3. Be respectful to the teacher, students, and classroom at all times. This includes all materials of the teacher, students, and classroom.**
- 4. Have a positive attitude and actively participate in discussions / activities.**

Failure to follow the expectations stated above may result in a teacher detention scheduled during the student's lunch period or administrative after school detention depending on the severity of offense at the discretion of the teacher and / or administration.

Arriving to class late and/or being unprepared three (3) times will result in a lunch detention.

Intriguing Information

For this class, students will need:

- **3 ring binder divided into two (2) sections: 1 section for notes/classwork and 1 section for homework.**
- **Lined paper**
- **Scientific calculator**
- **Book cover**
- **Pencils**

For enrichment or extra practice, check out www.classzone.com. This website is a great resource for homework and to study for tests / quizzes.

Other updates, homework assignments, and information can be found on my teacher website. To view my website, go to the Freeport Area Middle School website then under teacher websites select Dechant, Kami.

If you have any questions, please do not hesitate to see me in my room -321. You can also contact me through e-mail: dechant@freeport.k12.pa.us or phone: (724) 295 – 9020 x2321

I look forward to working with you,

Miss Kami Dechant

Please complete the form below and return to Miss Dechant by Friday, September 1, 2017.

I, _____, understand and will comply with the expectations in the geometry syllabus.
(Student Name)

(Signature of Student)

(Date)

I, _____, have discussed the terms of the geometry syllabus with my student.
(Parent/ Guardian Name)

(Signature of Parent/Guardian)

(Date)

For Parent / Guardian:

I would / would not like to be included on the e-mail list to receive periodic e-mail updates for upcoming assignments and tests. *Please print clearly.
(Please circle one)

(Parent / Guardian e-mail address)

(Signature of Parent/Guardian)