

Challenger High School
2021 - 2022
Geometry Syllabus
CEDARS Code 2072, 9/7/21
MTH 151/152

Instructors: Sarah McKinley Phone: (253)800-6807 Email: smckinley@bethelsd.org Mike Thompson Phone: (253)800-6822 mcthompson@bethelsd.org (co-teachers 1st and 6th periods)

Grade Level: 9, 10, 11, 12 **Credit:** Mathematics 1.0 **NCAA Approved**

Course Description: This course emphasizes the concepts of Geometry at the high school level. Topics include: reasoning in geometry, using tools in geometry, discovering and proving triangle properties, polygon properties, circle properties, angle/line relationships, transformations, area, volume, similarity, Pythagorean Theorem, and an introduction to trigonometry. In addition to these topics, students will interpret and make decisions based on geometric information and find ways to solve problems that arise in real life while working independently and in groups. Over the course of the year the student will earn a 1.0 credit (or 0.25 credit over the course of each quarter.)

MTH151

Quarter 1:

Basics of Geometry
Transformations

Quarter 2:

Similarity
Right Triangle Trigonometry

MTH 152

Quarter 3:

Special Lines and Points in Triangles
Congruent Triangle Postulates
Using Congruent Triangles

Quarter 4:

Pythagorean Theorem and the Distance Formula
Circumference, Area, and Volume
Probability

This course meets Common Cores State Standards – Mathematics as defined by the state and the school district. This course meets the state and school district graduation requirements.

Refer to: *Common Cores State Standards for Mathematics* (which can be found online at http://www.k12.wa.us/CoreStandards/Mathematics/pubdocs/CCSSI_MathStandards.pdf) for more detail and to identify specific standards. The CCSS-M clusters covered are: • **G-CO 1 –**

13: Congruence

- **G-SRT 1 – 8: Similarity, Right Triangles, and Trigonometry**
- **G-C 1 – 5: Circles**
- **G-GPE 1, 2, 4 – 7: Expressing Geometric Properties with Equations**

- **G-GMD 1, 3, 4: Geometric Measurement and Dimension**
- **G-MG 1 – 3: Modeling with Geometry**
- **Math Practices 1 – 8**

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Materials:

- District approved textbook: Big Ideas Math: Geometry
- We will also be piloting (testing) two curriculums this year during second and third quarter. Second quarter we will be using Learn Zillion and third quarter Agile Minds. • All other supplementary materials will be provided by the instructor or accessed on the iPad

Grading Scale: (Progress reports will be done monthly)

- **A** (92-100%)
- **A-** (90 – 91.9%)
- **B+** (87-89.9%)
- **B** (82 – 86.6%)
- **B-** (80-81.9%)
- **C+** (77-79.9%)
- **C** (72-76.9%)
- **C** (70-71.9%)
- **D+** (67 – 69.9%)
- **D** (60 – 66.9%)
- **NC** (59.9% or below) Student unable to demonstrate mastery of expected skills.

Grading:

- 40% Formative – exit slips, assignments, and quizzes that show students understanding as we progress through a unit and are used to inform instruction
 - 60% Summative – unit assessments and performance tasks
- The unit tests will be separated into sections, each section covering a specific learning target.

Class Expectations:

Each student is responsible for their own behavior and should act in a manner that will not detract from the learning environment for other students. Refer to the student handbook for further detail on behavioral expectations. Failure to abide by these expectations may result in a warning, removal from the class for a specified time period, parent phone call and/or conference, or additional discipline as spelled out in the student handbook.

Daily lesson outlines and student assignments may be found on the Canvas page for this course. Students may access missing assignments at any time. These assignments are updated on a regular basis. Grades are kept up to date on Synergy (Student and Parent Vue) at least weekly if not more often. If there are any questions as to a grade or an assignment we can be contacted at smckinley@bethelsd.org or mcthompson@bethelsd.org.

Attendance is crucial in this class. Please be in class, on time, regularly. Many experiences in the classroom cannot be re-created on an individual basis. Research shows that students who miss even a few days of school each month are at a greater risk of academic failure and dropout. It is the student's responsibility to get assignments and activities that have been missed due to absence from the course Canvas page.

The first graded assignment for this class is to either print out and return the last page of this syllabus signed by both student and parent/guardian or you may also email this information to smckinley@bethelsd.org. If a student is their own parent/guardian they may sign both, but be sure that the proper paperwork has been filled out in the office if this is the case.

Student Name

Student Signature

Name Parent preferred contact phone number _____ Parent

Signature Parent preferred contact email _____ Parent