Challenger High School  
2018 – 2019  
Geometry Syllabi  
MTH 151/152  

Instructor: Sarah McKinley  Phone: (253)683-6807  Email: smckinley@bethelsd.org  
Grade Level: 9, 10, 11, 12  Credit: Mathematics 1.0  NCAA Approved  

Time Requirements:  
Students will be required to do 5 hours per week of class work, and to do 7.5 hours of homework per week. Students are required to contact the instructor prior to any absence in order to determine how the student will make up any missed assignments.  

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 a 0.5 credit over the course of a semester or 0.25 credit over the course of a quarter.)  

**MTH151**  
Quarter 1:  
1. Basics of Geometry  
2. Reasoning and Proofs  
3. Parallel and Perpendicular Lines  

Quarter 2:  
4. Transformations  
5. Congruent Triangles  
6. Relationships with Triangles  

**MTH 152**  
Quarter 3:  
7. Quadrilaterals and other Polygons  
8. Similarity  
9. Right Triangles and Trigonometry  

Quarter 4:  
10. Circles  
11. Circumference, Area, and Volume  
12. 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.
Common Core State Standards:
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

Materials:
- District approved textbook: Big Ideas Math: Geometry
- All other supplementary materials will be provided by the instructor or accessed on the iPad

Assessment (may include but not limited to):
- Oral/Written expression for mastery understanding of course concepts and demonstration of the application of course concepts.
- Performance based evaluations through labs and projects.

Progress:
- Student progress is monitored weekly (I will do my best to send out bi-weekly progress reports by email.) Student monthly progress is at the discretion of the certificated teacher based on weekly evaluations and the student’s ability to complete the required learning benchmarks for that month.
- If a student fails to make collective progress for all weeks, then monthly progress is unsatisfactory. Student monthly progress is specifically evaluated against progress benchmarks, which are clearly defined in the course for each month.
- In addition to the course schedule, these benchmarks may also come in the form of lesson, unit, assignment and/or assessment completion dates.
- These established progress benchmarks will allow teachers and students to assess the student’s educational progress in meeting the course learning standards.
- At a minimum, students must turn in at least one assignment per week to maintain a status of “making monthly progress”, but will need to complete all the instructor is asking for each week in order to complete the course on time.

Grading Scale: (Progress reports will be done monthly)
- A (90-100%) Student demonstrates exemplary abilities through scores earned on assessments; student showed outstanding mastery of expected skills
- B (80-89%) Student demonstrated above average abilities through scores earned on assessments; student shows above average mastery of expected skills.
- C (70-79%) Student demonstrates adequate abilities through scores earned on assessments; student showed adequate mastery of expected skills.
- NC (69% or below) Student unable to demonstrate mastery of expected skills.
Grading:

- 40% Formative – exit slips (4 points), homework assignments and quizzes (10 points each)
- 60% Summative – unit tests and performance tasks

The tests will be separated into sections, each section covering a specific learning target. Each section will be worth 10 points. Performance tasks will also be worth 10 points.

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.

Student assignments may be found on the Canvas page for this course. Students may download and access missing assignments at any time. These assignments are updated on a regular basis. Grades are kept up to date in Family Access (at least weekly if not more often.) If there are any questions as to a grade or an assignment I can be contacted at smckinley@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. We have set a goal that every student in our school attends regularly (no more than nine absences per year, approximately one absence per month, including excused absences.) It is the student’s responsibility to get assignments and activities that have been missed due to absence.

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 last page 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 Signature

_________________________________________________
Parent Signature

_________________________________________________
Parent preferred contact phone number

_________________________________________________
Parent preferred contact email