

Charles J. Colgan, Sr. High School  
*“Preparing and Inspiring Students for their Future”*

---

Mrs. Casey Grandy

Geometry

2018-19 Course Syllabus

571.374.6550 • grandyca@pwcs.edu

Office Hours: Monday and Tuesday 2:30 to 3:30 (other times by appointment)

### Course Description:

Geometry offers students a means of describing, analyzing, and understanding aspects of their world. Geometric modeling, visualizing, and spatial reasoning can be used to solve many kinds of problems. Coordinate geometry and other representational systems allow locations to be specified and described. Geometry also focuses on the development of reasoning and proof, using definitions and axioms. This class will emphasize two- and three-dimensional reasoning skills, coordinate and transformational geometry, and the use of geometric models to solve problems. A variety of applications and some general problem-solving techniques including algebraic skills, should be used to implement these standards.

#### Required Class Materials:

3 Ring Binder  
Notebook Paper (loose-leaf)  
Graph Paper  
Pencils

#### Suggested (but not required):

Highlighters  
Colored pencils  
Index Cards  
Compass  
TI 83/84 Plus Calculator

### Course Unit Topics:

- Geometrical Thinking and Basic Vocabulary
- Coordinate Geometry, Basic Constructions, and Equations of Circles
- Angle Relationships with Intersecting and Parallel lines
- Angle Relationships in Circles
- Triangle Relationships
- Congruent Triangles
- Similar Triangles
- Right Triangles and Special Right Triangles
- Segments in Circles
- Quadrilaterals and Polygons
- 2-D Figures – Area, Perimeter, and Similarity
- 3-D Figures

**Grading/Missed Work:** Grades are reflective of a student’s level of mastery of an objective. Students will be given multiple opportunities to master objectives. A percentage score will be awarded for each graded assignment. Grades will be calculated based upon the following assessment categories:

**Summative Assessments (80% of total grade):** These summative assignments demonstrate that the student has mastered the learning target(s) that have been addressed during a unit of study. This type of assessment could occur during a unit or at the end of a unit. Examples of such assessments may include but are not limited to: tests and projects. Students may retake summative assessments.

**Formative Assessments (20% of total grade):** This type of assignment will be used to measure student progress towards a learning target, and will be used to measure student progress towards a learning target. This will occur within instruction towards a learning target. Examples of

formative assessments may include but are not limited to: quizzes, homework quizzes, exit tickets, projects, and classwork.

**Ungraded Assignments:** This type of assignment does not count towards a student's overall grade, but still provides the opportunity to practice, receive feedback, and develop mastery of a learning target. Examples of ungraded assignments may include but are not limited to warm ups and homework.

**Retake Procedures:** Before a retake/redo opportunity is permitted, the student will engage in a reasonable relearning process of the material at the teacher's discretion. This process can include test corrections, homework completion, completing missing assignments, meeting with the teacher for additional support or another strategy developed by the teacher. It may also include a student submitting a plan of relearning which includes evidence of the relearning before the assessment can be redone.

### **Contact Information:**

**For Students:** If you have questions about classwork, homework, tests, etc. the fastest way to reach me is through the Edmodo application. I will use Edmodo to post documents; it is important that you are a member of this page. The link to the Edmodo page will be set up on school messenger. Email is also a good way to contact me. Make sure all correspondence via email is done through your school approved gmail or outlook account.

**For Parents:** The best way to contact me is through email at [grandyca@pwcs.edu](mailto:grandyca@pwcs.edu). Please encourage your student to be proactive and self-advocate. Both students and parents should check Parent Portal weekly and address any concerns as soon as they arise. I am flexible and willing to help in most circumstances, however, it is very difficult to provide assistance at the last minute or at the end of the quarter/semester/year. The use of SchoolMessenger, Parent Portal, Edmodo and email will be extremely beneficial in monitoring your student's progress.

### **Calculators:**

We will have Texas Instruments TI-84 Plus calculators for use while students are in class.

**Additional Information:** Geometry can be a challenging course for many students. Please take full advantage of the following opportunities for support:

- After-school help. I, as well as other members of the Geometry team, will be available for after school help on days and times TBA. The National Honors Society and the Math Honors Society will both provide free tutoring.
- Class website. Posting of class notes
- Google: Technology is an important innovation in today's education system. If a student should find a particular homework assignment difficult, we encourage them to use Google, YouTube and Khan Academy in addition to their notes.
- Reliable Math Help Websites: There are many education websites that you find using google but here are several that are very reliable and help support the topics in this Geometry curriculum: [khanacademy.com](http://khanacademy.com), [purplemath.com](http://purplemath.com) and [kutasoftware.com](http://kutasoftware.com).