

# Geometry

Mr. Abbott

labbott@usd355.org

Learning Geometry is an active process in which you need to ask questions, explain solutions, discuss concepts, make conjectures, and take part in activities. In this course, you will learn many new symbols that represent mathematical ideas. It is crucial that you master the correct usage of these symbols.

A fundamental purpose of this Geometry course is to formalize and extend your experiences from Middle School Geometry. Then apply these experiences to the world around us.

A secondary objective is to refresh Algebra concepts to prepare 10<sup>th</sup> grade students for the Kansas Math State Assessment. For students that have already taken that assessment, these same Algebra tools are useful for future Algebra studies, the ACT, and Geometry.

## **I. Concepts you will encounter:**

1. Tools of Geometry
2. Angles and Geometric Figures
3. Logical Arguments and Line Relationships
4. Transformations and Symmetry
5. Triangles and Congruence
6. Relationships in Triangles
7. Quadrilaterals
8. Similarity
9. Right Triangles and Trigonometry
10. Circles
11. Measurement
12. Probability

## **II. Standards for Mathematical Practice**

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

*Everyone is capable of learning math!*

Mathematics takes lots of practice, so you will be assigned problems to work every class. Do homework completely and neatly, showing all appropriate work. Get help right away, if you do not understand something!

Take responsibility for your own learning, enjoy the work, and expect to be successful!

### **III. Grading Information**

#### **Weighting: (Quarter)**

Daily Participation, Classwork, and Homework	30%
Quizzes and Tests	70%

#### **Semester Grade:**

$S1 = 50\% \text{ of } Q1 + 50\% \text{ of } Q2$   
 $S2 = 50\% \text{ of } Q3 + 50\% \text{ of } Q4$

### **IV. Required Materials**

Notebook or Binder for notes  
Pencil and Paper  
School Chromebook  
\*Calculator

### **V. Classroom Expectations**

- Students are to come to class prepared to learn with homework completed.
- A daily participation grade may be awarded for being on time (not tardy), bringing your supplies, and completion of bellwork.
- Students who know they will be absent should request their work and assignments ahead of time.  
Not communicating with the teacher does not excuse missing homework deadlines.
- Homework turned in late, will have points deducted.  
Work turned in later than a week after the deadline may earn a zero.
- You may redo some assignments to improve a grade by working with the teacher.
- Certain quizzes and exams may have the opportunity to be corrected or redone for partial points. All assignments, redos, and corrections should be completed before the chapter test.
- Read the Student Handbook for further expectations and procedures.

*Think Positive, Be Positive!*