

Geometry Support Syllabus

School Year: 2026-2027

Course Number: MAT223/MAT224

Teacher: Raul Peters

Room # : 524

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Course Description: The high school Geometry: Concepts and Connections course is the second in a sequence of three high school mathematics courses. In this course, students will apply their algebraic and geometric reasoning skills to make sense of problems involving geometry, trigonometry, algebra, probability, and statistics. Students will continue to enhance their analytical geometry and reasoning skills when analyzing and applying a deep understanding of polynomial expressions, proofs, constructions, rigid motions and transformations, similarity, congruence, circles, right triangle trigonometry, geometric measurement, and conditional probability.

Textbook/Provided Resources: Reveal Geometry Volume 1 and Volume 2 & ALEKS

Tools/Materials Needed

- 1 inch 3-ring binder / Folder
- TI-84CE Graphing Calculator
- Spiral art sketch book or composition notebook
- Black Expo Dry Erase Marker (donate to class supply)
- Geometric compass
- Pencils & highlighters

Class Specifics

Geometry Support is designed to strengthen foundational geometry skills through guided practice, collaborative learning, and targeted skill-building activities. Students will work individually and in small groups to develop confidence and proficiency with essential concepts that support success in their main Geometry course with our textbook. They will be expected to work in ALEKS regularly as part of their practice time.

Course Overview

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Module A: Polynomials

Module 1: Tools of Geometry

Module 2: Angles and Geometric Figures

Module 3: Logical Arguments & Line Relationships

Module 4: Transformations and Symmetry

Module 5: Triangles and Congruence

Module 6: Relationships in Triangles

Module 7: Quadrilaterals

Module 8: Similarity

Module 9: Right Angles and Trigonometry

Module 10: Circles

Module 11: Measurement

Module 12: Probability

Grading Procedure:

 **Practice Work - 40%** Daily assignments including warm-ups, guided notes, worksheets, and independent practice. Students are expected to show work, stay engaged, and complete all tasks.

 **Skill-Building Activities - 40%** Hands-on and collaborative tasks such as small-group problem solving, stations, Desmos Classroom activities, and Delta Math practice sets. These activities focus on reasoning, communication, and application of geometry concepts.

 **Formative Assessments - 20%** Short checks for understanding delivered through platforms like Amplify, Wayground, and DeltaMath. These assignments help track mastery and guide instructional support.

A 90-100% D 70-72%

B 80-89% F below 70

C 73-79 %

Learning Management System: Google Classroom code is

P1

P3

wadq3kg2

hh6lvtbq

Becoming Mathematicians

As your child becomes a mathematician, here is a list of skills we will encourage in them

- Notice details
- Collaborating with others
- Take risks
- Draw representations
- Explain their thinking
- Think creatively
- Communicate
- Look for patterns
- Persevere
- Ask "keep thinking" questions
- Take their time
- Be patient with their learning

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