Geometry

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Course Overview

Topics covered include the language of geometry (points, lines, planes and angles), reasoning and proofs, parallel and perpendicular lines, congruent triangles, applications of congruent triangles, quadrilaterals, similarity, right triangles and trigonometry, circles, polygons and area, surface area and volume, coordinate geometry, and transformations.

Students will acquire and demonstrate knowledge of concepts, definitions, properties, and applications of the topics listed above as well as develop the computational skills and strategies needed to solve problems. Students will develop critical thinking and decision making skills by connecting concepts to practical applications.

Supplies

Chromebook
Composition Notebook
Pencils
Erasers
Glue
Colored pencils, markers, or pens

Course Units and TEKS

Semester 1

Unit 1: Geometry Basics 2AB, 4ABC, 5BC
Unit 2 Transformations 2ABC, 3ABCD, 4D, 2BC, 4A, 5ABC, 6A
Unit 3 Angles
Unit 4 Congruent Triangles 2B, 5ABCB, A6BCD

Semester 2

Unit 5 Similar Triangles 6D, 7AB, 8A, 10B
Unit 6 Right Triangles & Trigonometry 5BC, 6D, 7A, 8B, 9AB
Unit 7 Circles 2B, 5A, 12ADE
Unit 8 Volume & Surface Area 2B, 4D, 5A,6E, 10AB, 11ABCD, 12BC
Unit 9 Probability & Measurement 13ABCDE