



Congruent Triangles

Lesson Synopsis:

In this lesson, the concept of congruence is extended to triangles. Congruent triangles are explored both from the standpoint of congruence transformations and as axiomatic structures. Students justify congruent triangles with congruence transformations and prove triangles congruent with postulates and theorems. Students extend the concept of congruent triangles to prove further characteristics of triangles using corresponding parts of congruent triangles (CPCTC).

TEKS:

- 8.1.C **Geometric structures:** The student analyzes geometric relationships in order to make and verify conjectures.
- 8.2.B **Make inferences about angles, lines, polygons, shapes, and three-dimensional figures and determine the validity of the conjectures, utilizing more or less appropriate tools such as coordinate, transformational, or geometric.**
- 8.2.C **Geometric structures:** The student applies logical reasoning to justify and prove mathematical arguments.
- 8.3.B **Determine and justify relationships among geometric figures and their properties.**
- 8.3.C **Use logical reasoning to prove statements are true and find counter-examples to statements that are false.**
- 8.3.D **Dimensionality and the geometry of shapes:** The student understands coordinate systems provide convenient and efficient ways of representing geometric figures and space relationships.
- 8.3.E **Use two- and three-dimensional coordinate systems to represent points, lines, rays, line segments, and figures.**
- 8.3.F **Congruence and the geometry of shapes:** The student applies the concept of congruence in problem situations to figures and problems.
- 8.3.G **Use congruence transformations to make conjectures and justify properties of geometric figures involving figures represented on a coordinate plane.**
- 8.3.H **Identify and apply triangle congruence relationships.**

Getting Ready for Instruction

Performance Indicator(s):

- Identify congruent transformations and use them to make and justify conjectures and to solve problems. (8.3.B; G.1.D; ~~8.2.B~~; PS.1.E, 2.E, 3.E, 4.F, 5.G)
- Apply triangle congruence postulates and theorems to justify that two triangles are congruent. (8.3.B; G.3.B; G.7.A; G.1.E.A; G.1.E.B)
- Determine if triangles are congruent by applying congruence relationships and apply CPCTC to justify the congruence of pairs of triangles. (8.3.B; G.3.C; G.7.B) ~~PS.1.E, 2.E, 3.E, 4.F, 5.G~~

Key Understandings and Guiding Questions:

- Transformations (slides), rotations, or reflections (flips) are congruent transformations because they maintain congruence of shapes and sizes.
 - What does this term “congruent transformations” mean?
 - Does the dilation of a triangle maintain congruency?
- Congruent transformations can be used to justify conjectures.
 - When writing a statement to show that two triangles are congruent, how must the letters representing the vertices be arranged?

Geometry Tesccc Hs Mathematics Unit 4

Responsive Education Solutions Staff

Geometry Tesccc Hs Mathematics Unit 4:

Geometry Unit 4 (RES) Responsive Education Solutions Staff,2012-08-01 Students build on the foundational concepts as presented in Grades K 8 expanding their understanding through other mathematical experiences Geometric thinking and spatial reasoning play a critical role in geometry Geometric figures provide ways to represent mathematical situations and to express generalizations about space and spatial relationships Students use geometric thinking to understand mathematical concepts and the relationships among them Geometry consists of the study of geometric figures of zero one two and three dimensions and the relationships among them Students study properties and relationships having to do with size shape location direction and orientation of these figures Geometry can be used to mode and represent many mathematical and real world situations Students perceive the connection between geometry and the real and mathematical worlds and use geometric ideas relationships and properties to solve problems Students use concrete pictorial numerical symbolic graphical and verbal tools and technology to solve meaningful problems by representing and transforming figures and analyzing relationships This course applies a connection integration and applications approach Students will relate and apply geometric concepts to algebra statistics data analysis and probability A connection is made to other courses such as biology history art etc with problems that involve many of the geometric concepts and encourage the use of technology *Beyond Geometry , Geometry, Grade 4* Mary Rosenberg,2004-10-13 Both teachers and parents appreciate how effectively this series helps students master skills in mathematics and language arts Each book provides activities that are great for independent work in class homework assignments or extra practice to get ahead Test practice pages are included in most titles **Breakthrough to Math** Ann K. U. Tussing,1983-05 *Breakthrough to Math* Ann K. U. Tussing,1983-05 **4th Grade Math Unit 4 (RES) - Full Color** Responsive Education Solutions,2015-09-01

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