



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 an axiomatic structure. Students justify congruent triangles with congruence transformations and prove triangles congruent with postulates and theorems. Students extend the concepts of congruent triangles to prove further characteristics of triangles using corresponding parts of congruent triangles, CPCTC.

TEKS:

G.2	Geometric structures. The student analyzes geometric relationships in order to make and verify conjectures.
G.2B	Make conjectures about angles, lines, polygons, circles, and three-dimensional figures and determine the validity of the conjectures, choosing from a variety of approaches such as coordinate, transformational, or axiomatic.
G.3	Geometric structures. The student applies logical reasoning to justify and prove mathematical statements.
G.3B	Conclude and justify statements about geometric figures and their properties.
G.3C	Use logical reasoning to prove statements are true and find counter-examples to disprove statements that are false.
G.7	Dimensionality and the geometry of location. The student understands that coordinate systems provide convenient and efficient ways of representing geometric figures and using them accordingly.
G.7A	Use one- and two-dimensional coordinate systems to represent points, lines, rays, line segments, and figures.
G.1B	Congruence and the geometry of size. The student applies the concept of congruence to justify properties of figures and solve problems.
G.1BA	Use congruence transformations to make conjectures and justify properties of geometric figures including figures represented on a coordinate plane.
G.1BB	Justify and apply triangle congruence relationships.

GETTING READY FOR INSTRUCTION

Performance Indicator(s):

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

Key Understandings and Guiding Questions:

- Translations (slides), rotations, or reflections (flips) are congruence transformations because they maintain congruence of shape and size.
 - What does the term "congruence transformations" mean?
 - Does the dilation of a triangle maintain congruency?
- Congruence 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?

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Marco Cascella



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Table of Contents Geometry Tesccc Hs Mathematics Unit 4

1. Understanding the eBook Geometry Tesccc Hs Mathematics Unit 4
 - The Rise of Digital Reading Geometry Tesccc Hs Mathematics Unit 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Tesccc Hs Mathematics Unit 4
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Tesccc Hs Mathematics Unit 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Tesccc Hs Mathematics Unit 4
 - Personalized Recommendations
 - Geometry Tesccc Hs Mathematics Unit 4 User Reviews and Ratings
 - Geometry Tesccc Hs Mathematics Unit 4 and Bestseller Lists

5. Accessing Geometry Tesccc Hs Mathematics Unit 4 Free and Paid eBooks
 - Geometry Tesccc Hs Mathematics Unit 4 Public Domain eBooks
 - Geometry Tesccc Hs Mathematics Unit 4 eBook Subscription Services
 - Geometry Tesccc Hs Mathematics Unit 4 Budget-Friendly Options
6. Navigating Geometry Tesccc Hs Mathematics Unit 4 eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Tesccc Hs Mathematics Unit 4 Compatibility with Devices
 - Geometry Tesccc Hs Mathematics Unit 4 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Tesccc Hs Mathematics Unit 4
 - Highlighting and Note-Taking Geometry Tesccc Hs Mathematics Unit 4
 - Interactive Elements Geometry Tesccc Hs Mathematics Unit 4
8. Staying Engaged with Geometry Tesccc Hs Mathematics Unit 4
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Tesccc Hs Mathematics Unit 4
9. Balancing eBooks and Physical Books Geometry Tesccc Hs Mathematics Unit 4
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Tesccc Hs Mathematics Unit 4
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Tesccc Hs Mathematics Unit 4
 - Setting Reading Goals Geometry Tesccc Hs Mathematics Unit 4
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Tesccc Hs Mathematics Unit 4
 - Fact-Checking eBook Content of Geometry Tesccc Hs Mathematics Unit 4
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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