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.1	Geometric structure. The student analyzes geometric relationships in order to make and verify conjectures.
G.3B	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.2	Geometric structure. The student applies logical reasoning to justify and prove mathematical statements.
G.2B	Construct and justify statements about geometric figures and their properties.
G.2C	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 stars them accordingly.
G.7A	Use one-, two-, and three-dimensional coordinate systems to represent points, lines, rays, line segments, and figures.
G.10	Congruence and the geometry of size. The student applies the concept of congruence to justify properties of figures and solve problems.
G.10A	Use congruence transformations to make conjectures and justify properties of geometric figures including figures represented on a coordinate plane.
G.10B	Justify 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. (G.3B; G.10A)
  [redacted]LPS: 1E, 3E, 2I, 3J, 4F, 5G
- Apply triangle congruency postulates and theorems to justify that two triangles are congruent. (G.2B; G.3B, G.3C; G.7A; G.10A, G.10B)
  [redacted]LPS: 1E, 2E, 2I, 3K, 4F, 5G
- Determine if triangles are congruent by applying congruence relationships and apply CPCTC to justify the congruence of parts of triangles. (G.3B; G.3C; G.10B)
  [redacted]LPS: 1E, 2E, 2I, 3K, 4F, 5G

Key Understandings and Guiding Questions:

- Translations (slides), rotations, or reflections (flips) are congruent transformations because they maintain congruence of shape and size.
  - What does the 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?

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E Durkheim

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