Math 6+: Geometry
Spatial Reasoning, Similarity, Congruence, and Scale Factors

Congruence

Students	Learning Continuum Statements:
Students:	**RIT 151-160:** • Identifies congruent shapes, given informal language
Students:	**RIT 161-170:** • Identifies congruent shapes, given informal language
Students:	**RIT 171-180:** • Identifies congruent shapes, given informal language
Students:	**RIT 181-190:** • Identifies congruent shapes, given formal language • Identifies congruent shapes, given informal language
Students:	**RIT 191-200:** • Determines the lengths of corresponding sides in congruent figures • Identifies congruent shapes, given formal language • Identifies corresponding sides and angles in congruent figures
Students:	**RIT 201-210:** • Determines measures of corresponding angles in congruent figures • Determines the lengths of corresponding sides in congruent figures • Identifies congruent shapes, given formal language • Identifies corresponding sides and angles in congruent figures
Students:	**RIT 211-220:** • Determines measures of corresponding angles in congruent figures • Determines the lengths of corresponding sides in congruent figures • Identifies congruent shapes, given formal language

Students: **RIT 221-230:**

- Applies properties of congruent figures to determine a perimeter
- Applies the properties of congruent 3-D figures to determine area of a face, perimeter of a face, circumference of a face, volume, or surface area
- Determines measures of corresponding angles in congruent figures
- Uses formal notation to denote corresponding sides and angles in congruent triangles

Students: **RIT 231-240:**

- Describes a series of transformations that show two shapes are congruent on the coordinate plane
- Determines measures of corresponding angles in congruent figures

Students:

RIT 241-250:

- Describes a single transformation that shows two shapes are congruent on the coordinate plane

Students:

RIT 251-260:

- Identifies congruent triangles using AAS, ASA, SAS, or SSS
- Identifies the congruence postulate that proves two triangles are congruent

Students: **RIT 261-270:**

- Describes a series of transformations that show two shapes are congruent, using coordinate notation
- Determines measures of corresponding angles in congruent figures by algebraic methods
- Determines the conditions necessary to prove two triangles are congruent
- Identifies the congruence postulate that proves two triangles are congruent

Students:

RIT 271-280:

- Identifies the congruence postulate that proves two triangles are congruent