

Unit 1: Geometry Basics

LT: Create common language by defining & naming Geometric figures

- I CAN identify & name points
- I CAN identify lines & name them in 2 ways
- I CAN describe the difference between lines, segments, & Rays
- I CAN use correct notation for lines, segments, and Rays
- I CAN identify angles & name them 3 ways
- I CAN classify angles as acute, obtuse, right, or straight
- I CAN locate the midpoint of a segment using the midpoint formula
- I CAN measure the length of a segment using the Distance Formula
- I CAN find the area of a shape on the coordinate plane
- I CAN find the perimeter of a shape on the coordinate plane

Text: Chapter 1
Sections 1-6

Unit 2: Congruence Transformations

LT: Recognize, perform, and describe congruence transformations

- I CAN recognize translations
- I CAN write a rule for a translation
- I CAN apply a rule for a translation
- I CAN apply a Reflection Rule
- I CAN recognize a reflection
- I CAN perform a transformation composition
- I CAN recognize a rotation
- I CAN perform a rotation

LT: Apply transformations to prove that 2 or more shapes are congruent

- I CAN describe what transformations have occurred
- I CAN defend a claim that two figures are congruent using transformations

Text: Chapter 4
Sections 1-4

Unit 2 (continued)

LT: Apply transformations... (continued)

- I CAN use properties of transformations to find missing values

Unit 3: Proofs & Reasoning with Angle Relationships

LT: Use established concepts, strategies, and formats to defend your mathematics

- I CAN determine whether a conditional statement is true or false
- I CAN use counter examples to prove that a statement is false
- I CAN use properties of equality to construct a two-column proof
- I CAN use theorems, definitions, and postulates about segments and angles to prove statements

LT: Apply theorems, definitions, and postulates to draw conclusions & find missing values in parallel & perpendicular lines

- I CAN identify pairs of corresponding angles
- I CAN identify pairs of alternate interior angles
- I CAN identify pairs of alternate exterior angles
- I CAN identify pairs of consecutive interior angles
- I CAN find missing values when two parallel lines are cut by a transversal
- I CAN use theorems, definitions, and postulates to prove that two lines are parallel or perpendicular
- I CAN express parallel and perpendicular lines algebraically.

Unit 4: Triangle Congruence

LT: Determine & Defend the congruence of two triangles to solve design problems efficiently.

- I CAN accurately and precisely classify triangles
- I CAN find missing angle measures in a triangle
- I CAN identify the corresponding parts of two triangles

Unit 4 (continued)

LT: Determine & defend ... (continued)

- I CAN recognize when to use SSS $\triangle \cong$ Theorem
- I CAN recognize when to use SAS $\triangle \cong$ Theorem
- I CAN recognize when to use HL $\triangle \cong$ Theorem
- I CAN recognize when to use ASA $\triangle \cong$ Theorem
- I CAN recognize when to use AAS $\triangle \cong$ Theorem
- I CAN create a plan to prove that two triangles are congruent
- I CAN use theorems, definitions, and postulates to prove that two triangles are congruent

Text: Chapter 5
Sections: 1-7

Coordinate Proofs

LT: Assign and use coordinates in algebraic formulas and equations to defend a claim

- I CAN manipulate equations made entirely/mostly of variables
- I CAN choose the appropriate formula to apply to use a particular theorem
- I CAN assign coordinates to points of interest efficiently
- I CAN construct a coordinate proof

Text: Chapter 5
Sections: 8

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Handwriting practice lines consisting of multiple rows of horizontal lines, each row containing a solid top line, a dashed midline, and a solid bottom line.