

UNIT 2 OUTLINE: CONGRUENCE

Congruent Triangles:

- 1- Congruent Parts, Part 1
- 2- Congruent Parts, Part 2
- 3- Congruent Triangles, Part 1
- 4- Congruent Triangles, Part 2
- 5- Points, Segments, and Zigzags
- 6- Side-Angle-Side Triangle Congruence
- 7- Angle-Side-Angle Triangle Congruence
- 8- The Perpendicular Bisector Theorem
- 9- Side-Side-Side Triangle Congruence
- 10- Practicing Proofs
- 11- Side-Side-Angle (Sometimes) Congruence
- Quiz 1: Congruent Triangles

Proofs about Quadrilaterals :

- 12- Proofs and Quadrilaterals
- 13- Proofs about Parallelograms
- 14- Bisect It

- Quiz 3: Proofs about Quadrilaterals

Putting it All Together:

- 15- Congruence for Quadrilaterals

Project:

- Architectural Congruent Triangles



UNIT 3 OUTLINE: SIMILARITY

Properties of Dilations:

- 1- Scale Drawings
- 2- Scale of the Solar System
- 3- Measuring Dilations
- 4- Dilating Lines and Angles
- 5- Splitting Triangle Sides with Dilation, Part 1

Quiz 1: Properties of Dilations

Similarity Transformations and Proportional Reasoning:

- 6- Connecting Similarity and Transformations
- 7- Reasoning about Similarity with Transformations
- 8- Are They All Similar
- 9- Conditions for Triangle Similarity
- 10- Other Conditions for Triangle Similarity
- 11- Splitting Triangle Sides with Dilation, Part 2
- 12- Practice With Proportional Relationships

Quiz 2: Similarity Transformations and Proportional Reasoning

Similarity in Right Triangles:

- 13- Using the Pythagorean Theorem & Similarity
- 14- Proving the Pythagorean Theorem
- 15- Finding All the Unknown Values in Triangles

Putting it All Together:

- 16- Bank Shot

Project:

Logos Using Congruence & Similarity



UNIT 6 OUTLINE: COORDINATE GEOMETRY

Transformations in the Plane:

- 1- Rigid Transformations in the Plane
- 2- Transformations as Functions
- 3- Types of Transformations
- Quiz 1: Transformations in the Plane

Distances, Circles, and Parabolas:

- 4- Distances and Circles
- 5- Squares and Circles
- 6- Completing the Square
- 7- Distances and Parabolas
- 8- Equations and Graphs
- Quiz 2: Distances, Circles, and Parabolas

Proving Geometric Theorems Algebraically:

- 9- Equations of Lines
- 10- Parallel Lines in the Plane
- 11- Perpendicular Lines in the Plane
- 12- It's All on the Line
- 13- Intersection Points
- 14- Coordinate Proof
- 15- Weighted Averages
- 16- Weighted Averages in a Triangle
- Quiz 3: Proving Theorems Algebraically

Putting it All Together:

- Lines in Triangles

Project:



UNIT 7 OUTLINE: CIRCLES

Lines, Angles, and Circles:

1- Lines, Angles, and Curves

2- Inscribed Angles

3- Tangent Lines

Quiz 1: Lines, Angles, and Curves

Polygons and Circles:

4- Quadrilaterals in Circles

5- Triangles in Circles

6- A Special Point

7- Circles in Triangles

Quiz 2: Polygons and Circles

Measuring Circles:

8- Arcs and Sectors

9- Part to Whole

10- Angles, Arcs, and Radii

11- A New Way to Measure Angles

12- Radian Sense

13- Using Radians

Quiz 3: Measuring Circles

Putting it All Together:

14- Putting it All Together

Project:



