ADV GEOMETRY

Unit 1: Points, Lines, Planes

- Measuring Segments and Angles
- O Basic Constructions
- O Distance and Midpoint
- Sc Unit I test

Unit 2: Proofs Conditional Statements Writing Proofs

 $\sum_{i=1}^{N} Project/test$

Unit 3: Parallel/Perpendicular

- O Parallel Lines and Transversals
- O Proving Lines Parallel
- Slope (Parallel/Perpendicular)
- Checkpoint #1

Unit 4: Transformations

- Reflections
- Translations
- Rotations
- Classification of Rigid Motions
- Dil∂tions
- Unit 4 test

- Unit 6: Congruent Triangles
- O Isosceles and Equilateral triangles
- O Triangle Angle Sums
- $\xrightarrow{\Lambda}$ Unit 6A test
- O Congruent Triangles
- Proving Congruence SSS, SAS
- O Proving Congruence ASA, AAS
- Unit 6B Test

Unit 5: Similarity

- Proving Triangles Similar
- Similarity in Right Triangles
- Proportions in Triangles
- $\frac{1}{2}$ Checkpoint #2

Unit 7: Pythagorean Theorem

Rewriting Radical Expressions
Operations with Radical Expressions
Pythagorean Theorem

- $\sum_{n=1}^{N}$ Unit 7 test
 - (End of Quarter 1)

Unit 8: Right Triangle Trig

○ Right Triangles and Pyth. Theorem

- Trigonometric Ratios
- O Problem Solving with Trig
- $\frac{1}{\sqrt{2}}$ Checkpoint #3



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Unit 9: Quadrilaterals

- O Polygon Angle Sum theorems
- O Parallelograms
- O tests for Parallelograms
- O Properties of Special Parallelograms
- Conditions of Special Parallelograms
- Kites and Trapezoids
- $\frac{1}{2}$ Unit 9 test

Unit 10: Circles

- \bigcirc Circles in the Coordinate Plane
- Area and Sectors
- Chords
- Inscribed Angles
- Secant Lines and Segments
- Lines tangent to a Circle
- Checkpoint #4

Unit 11: Univariate Statistics

- 🔿 Analyzing Data Displays
- O Comparing Data Sets
- \bigcirc Interpreting Data Displays
- O Standard Deviation
- O Organizing Data Sets
- Project

Unit 12: Bivariate Statistics

- Scatterplots and Lines of Best Fit
- O Analyzing Lines of Fit
- Checkpoint #5

Unit 13: Area

- Areas of Parallelograms
- Areas of triangles, trapezoids, Rhombi
- Areas of Regular Polygons
- $\frac{\Lambda}{2}$ Unit 13 test

Unit 14: Surface Area and Volume

- ⊖ Three Dimensional Figures
- \bigcirc SA/V of Prisms and Cylinders
- SA/V of Pyramids and Cones
- SA/V of Spheres
- $\frac{1}{2}$ Unit 14 test