GEOMETRY

| CHAPTER |  |  |  |  |  |  |  |  |  |
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| TOPICS | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | JANUARY | FEBRUARY | MARCH | APRIL | MAY |
| ACADEMIC GEOMETRY | Basic Geometry <br> Terms; <br> Basic <br> Constructions; <br>  <br> Deductive <br> Reasoning | Investigate Basic Geometric Figures; Classify Geometric Figures | Transformations of <br> Geometric <br> Figures; <br> Symmetry of <br> Geometric Figures <br> Using Logical <br> Reasoning; <br> Preparing for Proof | Properties of <br> Triangles; <br> Informal Proofs <br> Involving Triangles | Calculating Perimeters of Polygons \& Circles; Area of Polygons \& Circles | Surface Area of 3- <br> D Figures; <br> Volume of 3-D <br> Figures; <br> Geometric <br> Probability | Exploring Parallel <br> Lines \& Related <br> Angles; <br> Constructing <br>  <br> Perpendicular <br> Lines; <br> Perspective <br> Drawing; <br> Explore Spherical <br> Geometry; <br> Prove Triangles <br> Congruent | Quadrilaterals and their Properties; Coordinate Proofs | Proving Triangles Similar; <br> Perimeter \& Area of Similar Figures; Area \& Volume of Similar Solids |
| APPLIED GEOMETRY | Polygons \& How Parts are Related; Properties of Polygons; Tilings; <br> Symmetries in Polygons; Parallel Lines \& Angle Relationship | Parallel Lines and Angle <br> Relationship; <br> Perimeters of <br> Polygons and Irregular Shapes; Areas of Polygons and Irregular <br> Shapes; <br> Relationship <br> Between <br> Perimeters and <br> Areas in <br> Rectangles | Circumference and Areas of Circles; Finding the Center of Circles; Tangents to Circles; <br> Central Angles, Ares, and Chords; Inscribed Angles; Parallel Lines through a Circle; Cyclic Quadrilaterals | Enlarging and <br> Shrinking Plane <br> Figures; <br> Identifying <br> Corresponding <br> Parts of Similar <br> Figures; <br> Describing and <br> Producing <br> Transformations of <br> Plane Figures; <br> Analyzing Scale <br> Factors Between <br> Figures; <br> Applying <br> Properties of <br> Similar Figures | Conditions of <br> Congruent <br> Triangles; <br> Proving Triangles <br> Congruent Using <br> S-S-S, A-A-A; <br> S-A-S, A-S-A; <br> S-A-A, S-S-A; <br> Calculating <br> Distance Between 2 <br> Points in a Plane; <br> Square Roots as <br> Lengths; <br> Understanding <br> Pythagorean <br> Theorem, How it <br> Relates to the <br> Areas of the <br> Squares on the <br> Sides of a Right <br> Triangle | Using the <br> Pythagorean <br> Theorem to Solve <br> Problems; <br> Investigating <br>  <br> Irrational <br> Numbers as <br> Decimals; <br> Slope <br> Relationships of <br> Perpendicular <br> Lines \& Parallel <br> Lines |  <br> Transformational Symmetry; Looking for Patterns that can be used to Predict Attributes of Designs; Tiling with Nonregular Polygons | Exploring <br> Relationships <br> Between 2-D \& 3- <br> D Objects; <br> Maximal \& Minimal <br> Buildings | Exploring <br> Symmetric <br> Properties of 2-D; Orthogonal Views of 3-D Buildings; Interpreting and Creating Isometric Views of 3-D Objects |

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