26-27 Geometry PAP Year-At-A-Glance

Term 1

Introduction to Geometry
- Inductive and Deductive Reasoning
- Conditional and Bi-Conditional Statements
- Introduction to Proofs
- Points, Lines, Planes, Postulates
- Distance and Midpoint
- Pythagorean Theorem
- Subdividing a Segment
- Angle Relationships

Time: 2.5 weeks
HMH Lesson: 1.1, 1.2, 1.4, 1.5, 12.2

Angles
- Angle Relationships
- Slopes and Equations of Lines
- Parallels and Transversals
- Proving Lines are Parallel

Time: 2 weeks
HMH Lesson: 4.1, 4.2, 4.3, 4.4, 4.5

Triangles
- Congruency
- Proving Triangle Congruency

Time: 2.5 weeks
HMH Lesson: 3.3, 5.1, 5.2, 5.3, 5.4, 6.2, 6.3

Term 2

Polygons
- Classifying Polygons
- Polygons of n-sides
- Sum of Interior and Sum of Exterior Angles
- Coordinate Proofs
- Inequalities in Triangles

Time: 1 week
HMH Lesson: 7.1, 7.2, 7.3, 10.3

Similarity
- Proportions
- Dilations and Scale Factor
- Theorems
- Proving Similarity
- Geometric Mean

Time: 2.5 weeks
HMH Lesson: 11.1, 11.3, 11.4, 12.1, 12.3, 12.4,18.3

Right Triangles
- Special Right Triangles
- Trigonometric Ratios
- Applications

Time: 2 weeks
HMH Lesson: 13.1, 13.2, 13.3

Segments in Triangles
- Special Segments
- Points of Concurrency

Time: 2 weeks
HMH Lesson: 8.1, 8.2, 8.3 8.4

Semester Exam

Term 3

Quadrilaterals
- Parallelograms and Rectangles
- Squares and Rhombi
- Kites and Trapezoids
- Coordinate Proofs

Time: 2.5 weeks
HMH Lesson: 9.1, 9.2, 9.3, 9.4, 9.5, 10.4

Circles
- Angle Relationships and Segments
- Circumference and Area
- Arc Length
- Sector Area
- Equations

Time: 3.5 weeks
HMH Lesson: 14.1, 14.2, 14.3, 14.4, 14.5, 15.1, 15.2, 15.3

Perimeter and Area
- Regular Polygons
- Composite Figures
- Dimensional Change

Time: 2 weeks
HMH Lesson: 10.5, 18.1, 8.4

Surface Area
- Cross Sections and Solids of Rotation
- Surface Area: Prisms, Cylinders, Pyramids, Cones, Spheres, Composite Figures
- Dimensional Change

Time: 1.5 weeks
HMH Lesson: 17.1, 17.2, 17.3, 17.4

Term 4

Volume
- Volume: Prisms, Cylinders, Pyramids, Cones, Spheres, Composite Figures
- Dimensional Change

Time: 2 weeks
HMH Lesson: 16.1, 16.2, 16.3, 16.4, 18.5

Transformations
- Translations, Reflections and Rotations
- Compositions and Symmetry

Time: 2 weeks
HMH Lesson: 1.3, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2

Probability
- Independent and Dependent Events
- Set Theory
- Geometric Probability
- Mutually Exclusive and Overlapping Events
- Conditional Probability
- Permutations & Combinations

Time: 2 weeks
HMH Lesson: 18.2, 19.1, 19.2, 19.4, 20.1, 20.2

Semester Exam

*HMH TX Geometry can be accessed via Clever.
Timeframes may vary slightly based on student needs.