

Geometry Pacing Guide
2006-2007
Spring Semester

| Textbook Section # | Wk # | Title/Description | Notes | Standard(s) |
|--------------------------|------|--|---------------------------------|---|
| 7.3-7.5 | 1 | Similar Polygons; AA Similarity Postulate; Theorems for Similar Polygons | | 4.0 Students prove basic theorems involving congruence and similarity. 5.0 Students prove that triangles are congruent or similar, and they are able to use the concept of corresponding parts of congruent triangles. |
| 7.6 8.1 | 2 | Proportional Length; Review and Test Chapter 7 Introduction to Square Roots | | (Alg I) 2.0 Students understand and use such operations as taking a root. |
| 8.1-8.2 | 3 | Similarity in Right Triangles; Pythagorean Theorem | | 4.0 Students prove basic theorems involving congruence and similarity. 14.0 Students prove the Pythagorean theorem. 15.0 Students use the Pythagorean theorem to determine distance and find missing lengths of sides of right triangles. |
| 8.3-8.6 | 4 | Converse of Pythagorean Theorem; Special Right Triangles; Sine, Cosine, Tangent Ratios | SOH CAH TOA | 18.0 Students know the definitions of the basic trigonometric functions defined by the angles of a right triangle. 19.0 Students use trigonometric functions to solve for an unknown length of a side of a right triangle, given an angle and a length of a side. 20.0 Students know and are able to use angle and side relationships in problems with special right triangles, such as 30°, 60°, and 90° triangles and 45°, 45°, and 90° triangles. |
| 8.5-8.7 | 5 | Applications of Right Triangles Review and Test Chapter 8 | | 19.0 Students use trigonometric functions to solve for an unknown length of a side of a right triangle, given an angle and a length of a side. |
| 9.1-9.3 | 6 | Circle Terms; Tangents; Arcs and Central Angles | | 7.0 Students prove and use theorems involving the properties of circles. 21.0 Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and inscribed and circumscribed polygons of circles. |
| 9.4-9.6 | 7 | Arcs and Chords; Inscribed Angles; Other Angles | | 7.0 Students prove and use theorems involving the properties of circles. 21.0 Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and inscribed and circumscribed polygons of circles. |
| 9.7 | 8 | Circles and Lengths of Segments | CASHEE (Tues/ Wed) | 7.0 Students prove and use theorems involving the properties of circles. 21.0 Students prove and solve problems regarding relationships among chords, secants, tangents, inscribed angles, and inscribed and circumscribed polygons of circles. |
| 11.1-11.5 (Skip 11.4) | 9 | Areas of Polygons (can be done in one day) Circumferences and Areas of Circles | 3rd Benchmark | 8.0 Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 10.0 Students compute areas of polygons, including rectangles, scalene triangles, equilateral triangles, rhombi, parallelograms, and trapezoids. |
| 11.6-11.7 (Skip 11.8) | 10 | Arc Lengths and Areas of Sectors; Ratio of Areas | | 8.0 Students solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures. 10.0 Students compute areas of polygons, including rectangles, scalene triangles, equilateral triangles, rhombi, parallelograms, and trapezoids. 11.0 Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids. |

**Geometry Pacing Guide
2006-2007
Spring Semester**

| | | | | |
|--------------------------|----|---|---------------------------------|--|
| 12.1-12.3 | 11 | Prisms; Pyramids; Cylinders & Cones | | <p>8.0 Students know, derive, and solve problems involving the perimeter, circumference, area, volume, lateral area, and surface area of common geometric figures.</p> <p>9.0 Students compute the volumes and surface areas of prisms, pyramids, cylinders, cones, and spheres; and students commit to memory the formulas for prisms, pyramids, and cylinders.</p> |
| 12.4-12.5 13.1 | 12 | Spheres; Volumes of Similar Solids Distance Formula and Equations of Circles | | <p>9.0 Students compute the volumes and surface areas of prisms, pyramids, cylinders, cones, and spheres</p> <p>11.0 Students determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and solids.</p> <p>17.0 Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.</p> |
| 13.2-13.6 (Skip 13.4) | 13 | Slope; Parallel/Perpendicular Lines; Midpoint Formula; Graphing Linear Equations | | <p>17.0 Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.</p> |
| 13.7-13.8 14.1 | 14 | Writing Linear Equations; Coordinate Proofs Mappings and Functions | | <p>17.0 Students prove theorems by using coordinate geometry, including the midpoint of a line segment, the distance formula, and various forms of equations of lines and circles.</p> <p>22.0 Students know the effect of rigid motions on figures in the coordinate plane and space, including rotations, translations, and reflections.</p> |
| 14.2-14.4 | 15 | Reflections, Translations, Rotations (in 1 day) Review/Prepare for STAR Tests | Review Constructions | <p>22.0 Students know the effect of rigid motions on figures in the coordinate plane and space, including rotations, translations, and reflections.</p> |
| | 16 | STAR TESTING WEEK | S.T.A.R. TESTS | |
| 13.4 | 17 | Vectors; Review and Test Chapter 13 | | |
| 11.8 | 18 | Geometric Probability | | |
| | 19 | Review for Finals | | |
| | 20 | FINALS | 4th Benchmark | |