Geometry

1st Nine Weeks 2nd Nine Weeks 3rd Nine Weeks Introduction to Geometry (13 Triangles (15 days) More quadrilaterals (5 days) Triangle sum Sides and angles of rhombi days) Points lines and planes Exterior angle theorem Sides and angles of squares Distance formula and Pythagorean Corresponding parts of congruent Sides and angles of kites Sides and angles of trapezoids theorem triangles Midpoint of a segment and its uses SSS, SAS, ASA, AAS, HL -----(Test 1)----------(Test 1)-----Properties of isosceles and Similar figures (14 days) -----(Test 1)-----Ratios and proportions Angles and constructions (8 days) equilateral triangles **Identify** angles -----(Test 1)-----Proportional parts of triangles Proportional parts with parallel Classify angles More triangles (10 days) Measure angles Perpendicular bisectors lines Angle bisectors Parts of similar triangles Use congruent angles -----(Test 2)-----Construct congruent segments and Medians **Altitudes** Right triangles (15 Days) angles Construct bisectors of angles and Triangle inequality and its Relationships between parts of applications right triangles segments -----(Test 2)----------(Test 2)-----Geometric mean Logic and proofs (7 days) Rectangles and parallelograms (9 Pythagorean theorem Inductive reasoning 45-45-90 triangles days) Sum of interior and sum of exterior Conditional statements 30-60-90 triangles Advertising project of polygons Trig to find side length and angle Sides and angles of parallelograms Angle relationships measure Angles of depression and elevation Introduction to proofs Sides and angles of rectangles -----(Test 3)----------(Test 3)----------(Test 3)-----Parallel lines (15 days) Parallel lines and transversals Parallel and perpendicular line equations -----(Test 4)-----

4th Nine Weeks

Transformations (15 days)

Draw reflections, Rotations, Translations. Dilations Glide reflections and other composites Reflectional and rotational

symmetry

Circles (20 days)

Parts of a circle Circumference Central angle and arc length Arc. chord and diameter Inscribed angels Tangents and circumscribes polygons Measures of segments inside and outside the circle Equation of a circle -----(Test 2)-----

2D and 3D shapes (8 days)

Area and perimeter parallelogram and triangle Area kite, trapezoid rhombus Area of circle and sector Area of regular polygon and composite figures Area of similar figures -----(Test 3)-----

Surface area of prisms and cylinders Surface are of pyramids and cones Volume of prisms and cylinders Volume of pyramids and cones Surface area and volume and sphere Review for final