Argenta-Oreana High School
Informal Geometry
Textbooks: Geometry (resource only), Prentice Hall, 2007
Geometry: Concepts and Skills (resource only), McDougall Littell, 2005

Date Semester	IL Lrning Stnds	IL Assmnt Stnds	Unit and/or Essential Question Content and/or Skills	Assessment and/or Products
Semester I August September	7. A. 7. A. 4b 8. A. 4b 9. A 9. B 9. B. 4	7.11.03 8.11.04 9.11.06 9.11.07 9.11.09 9.11.10 9.11.17	Tools of Geometry ▪ Patterns/Inductive Reasoning • Undefined terms *point, line and plane* • Draw representation of points, lines and planes (Collinear points, coplanar points, parallel & skew lines) • Symbolic notation for point, line, segment, ray, distance • Addition of segments and angles • Measure segments – Use a ruler (both English and Metric measures) • Measure angles – use a protractor. • Perimeter– Squares & Rectangles •	Worksheets Quizzes Project: Op Art design with ruler Project: String Art Design
September October	7. A 9. A 9. B 9. B. 4 9. C. 4c	7.11.03 9.11.04 9.11.05 9.11.17	Triangles ▪ Classify by sides and angles ▪ Sum of all angle measures ▪ Exterior angle equals sum of two remote exterior angles Angle – single and pairs ▪ Classify/define, draw representations and use theorems for: Vertical angles, perpendicular lines, supplementary angles, complementary angles	Worksheets Quizzes Triangle tessellation activity
October November	9. C	9.11.18 10.11.03	Reasoning and Proof • Conditional statements - Identify and write in if-then form • Hypothesis, conclusion, converse, • Inverse and contrapositive (Optional) – identify and write	Project: Conditional booklet/poster Worksheets Quizzes

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November	9. A 9. B 9. B. 4 9. C. 4c	9.11.04 9.11.05 9.11.17	Perpendicular & Parallel Lines • Vocabulary for two lines intersected by (a) transversal(s) Alternate interior and alternate exterior angles corresponding angles same-side interior angles • Parallel lines and angle relationships (congruent/not congruent and parallel/not parallel) • Polygons- Convex, non-convex and regular Sum of interior angles Sum of exterior angles	Worksheets Quizzes Op Art line design Regular polygon tile activity
November December	9.A		Constructions • Copying segments: Addition, Subtraction, Multiplication and Division • Copying Angles • Constructing a regular polygon (square, hexagon, triangle)	Worksheets Quizzes
December	9. A 9. B 9. B. 4 9. C. 4c	9.11.04 9.11.05 9.11.09 9.11.17	Quadrilaterals • Classify quadrilaterals • Define parallelogram and its properties • Special parallelograms • Trapezoid & kite	Activity – Quadrilateral properties Worksheets Quizzes
Semester II January	6. D 6. D. 4 9. B. 4 9. C. 4c	6.11.17 9.11.05 9.11.12 9.11.16 9.11.17	Similarity • Ratio and proportion • Similar polygons	Enlarge cartoon/painting Worksheets Quizzes
February	9. A 9. A 4b	9.11.02 9.11.03	Transformations • Translations	Tiling patterns: Indian Beadwork design

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			• Reflections • Rotations • Symmetry • Dilations • Tessellations	Kaleidoscope design Worksheets Quizzes
March	7. A. 4b 9. A 9. D 10. C	7.11.03 7.11.05 7.11.06 9.11.10 10.11.09	Area • Area of Parallelograms, Triangles, rhombuses, trapezoids, kites and regular polygons. • Circles	Worksheets Quizzes
April	7. A. 4b	7.11.03 7.11.05 7.11.06	Surface Area and Volume • Surface areas of prisms, cylinders • Volume of prisms, cylinders • Surface area and volume of spheres	One point perspective project: city skyline Worksheets Quizzes
May	8. D 10.A.4b 10. C 10. C. 5a	8.11.05 10.11.01 10.11.02 10.11.05 10.11.08	Probability • Collect and interpret data. • Choose a sample population. • Interpret data from tables, charts and survey results. • Find and use measures of central tendency (mean, median, mode and range) from data. • Interpret and create frequency tables and pictographs. • Find the probability of an event. • Find experimental probability. • Use and create tree diagrams to find possible outcomes in a sample space. (Optional)	Worksheets Group activities Chapter Test