

Curriculum Mapping

School: Illini Bluffs High School

School Year: 2009-2010

Course: Practical Geometry

Grade Level: 11+

Page:

Month	ILS	Content	Skills	Assessments	Resources
August	9B4 7A3a 7C4c	Points, lines, planes & angles Parallel & perpendicular lines Basic line constructions Metric system	Name points, lines, segments, rays, planes, collinear points, & coplanar points Name angles, right angles, opposite rays, & straight angles Understand parallel lines and parallel planes and intersecting lines and intersecting planes Measure length using the metric system	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
September	7A3a 9B2 9B4 9C4a	Congruent segments Midpoint Bisectors Deductive/inductive reasoning Angle measurement Circles	Construct congruent segments & bisectors Construct perpendiculars & perpendicular bisectors Use deductive & inductive reasoning to state conclusions Use amount of turn to measure angles Use relationships among parts of circles Measure angles in degrees and draw angles using a protractor Classify angles Find angle measure by adding & subtracting angle measures	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
October	9A3a 9A3c 9A4b 9B2 9B4	Congruent angles Angle bisectors Pairs of angles Polygons Polyhedrons Prisms Triangle Classification Perspective	Construct congruent angles & angle bisectors Recognize relationships among vertical angles, complementary angles, & supplementary angles Recognize convex & concave polygons Classify triangles Recognize types of quadrilaterals & other polygons Name & draw polyhedrons & prisms Distinguish between one-point & two-point perspective	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
November	7A4b 9A3b	Congruent polygons & corresponding parts	Name corresponding parts of congruent polygons & write congruence statements for	Homework Class work	Text Teacher

	9A3c 9B4	Transformations Symmetry Triangles & triangle inequalities	figures Name & draw reflections, translations, & rotations Identify line symmetry, rotational symmetry, & point symmetry Use Isosceles Triangle Theorem & related theorems Name altitudes, medians, circumcenters, incenters, orthocenters, & centroids of triangles Use inequalities to compare side lengths & angles measures for triangles	Quizzes Tests	resource materials Worksheets
December	9C4a 9C4b	Congruent triangle postulates	SSS SAS ASA AAS HL CPCTC	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
January	9B4	Parallel lines Transversals & angles Angle measures of polygons	Identify the angles formed when two parallel lines are cut by a transversal Use relationships between interior angles and parallel lines Use facts about parallel lines cut by a transversal and pairs of corresponding angles Use the Triangle-Sum Theorem Use the relationship between an exterior angle of a triangle and its remote interior angles Find the sum of interior angle measures of polygons	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
February	9B4	Properties of quadrilaterals	Use properties of parallelograms, rhombi, rectangles, squares, & trapezoids,	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
March	6D4 7A4b 7C4a 9A3c	Perimeter Area Similarity	Determine the perimeter of a concave or convex polygon Determine the area of a polygon by counting unit squares	Homework Class work Quizzes Tests	Text Teacher resource materials

	9B4 9D3		Determine the area of a polygon Determine the circumference & area of a circle Express ratios in simplest form Solve proportions Recognize similar figures & identify corresponding parts		Worksheets
April	8B4a 8B5 8C4a 8C5 8D4 9D4	Coordinate plane Trigonometry	Find the distance between two points in the coordinate plane Find the coordinates of the midpoint of a segment Find the slope of a given line Find the slope of a line parallel to or perpendicular to a line with a given slope Find the sine, cosine, and tangent ratios for any acute angle of a right triangle Find the measure of a given acute angle of a right triangle, given the lengths of two sides of the triangle Find the length of each side of a right triangle, given the length of one side and the measure of an acute angle	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets
May	7A4b 9B4	Area & volume of prisms	Describe the size & shape of the faces of a prism Find the lateral area, total area, & volume of a right prism Find the lateral area, total area, & volume of a right circular cylinder Find the lateral area, total area, & volume of a regular pyramid or right circular cone Find the area & volume of a sphere	Homework Class work Quizzes Tests	Text Teacher resource materials Worksheets