**Geometry A Course Syllabus**

**Lake Shore High School**

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| **Chapter** | **Section** |
|  | Introduction Vocabulary |
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| Ch. 1 Tools of Geometry | 1.1 Nets and Drawings for Visual Geo. |
|  | 1.2 Points, Lines, and Planes |
|  | 1.3 Measuring Segments |
|  | 1.4 Measuring Angles |
|  | 1.5 Exploring Angle Pairs |
|  | 1.6 Basic Constructions |
|  | 1.7 Midpoint and Distance in the Coordinate Plane |
|  | 1.8 Perimeter, Circumference, and Area |
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| Ch. 3 Parallel and Perpendicular Lines | 3.1 Lines and Angles |
|  | 3.2 Properties of Parallel Lines |
|  | 3.3 Proving Lines Parallel |
|  | 3.4 Parallel and Perpendicular Lines |
|  | 3.6 Constructing Parallel and Perpendicular Lines |
|  | 3.7 Equations of Lines in the Coordinate Plane |
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| Ch. 6 Polygons and Quadrilaterals | 6.2 Properties of Parallelograms |
| - Explore Properties | 6.3 Proving that a Quadrilateral is a Parallelogram |
| - Prove Using Coordinates | 6.4 Properties of Rhombuses, Rectangles, and Squares |
|  | 6.5 Conditions for Rhombuses, Rectangles, and Squares |
|  | 6.6 Trapezoids and Kites |
|  | 6.7 Polygons in the Coordinate Plane |
|  | 6.8 Applying Coordinate Geometry |
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| Ch. 2 Reasoning and Proof | 2.1 Patterns and Inductive Reasoning |
|  | 2.2 Conditional Statements |
|  | 2.3 Biconditionals and Definitions |
|  | 2.4 Deductive Reasoning |
|  |  |
|  | 6.9 Proofs Using Coordinate Geometry |