# Winchester Public Schools Geometry Pacing Guide 

First Quarter

| SOL | Topic | Blocks |  |
| :---: | :---: | :---: | :---: |
| 1.1 | Identify the converse, inverse, and contrapositive of a conditional statement. | 1 |  |
| 1.2 | Translate short verbal arguments into symbolic form, such as $(P \rightarrow Q)$ and ( $\sim \mathrm{P} \rightarrow \sim \mathrm{Q}$ ). |  |  |
| 1.3 | Use and interpret Venn Diagrams. |  |  |
| 1.4 | Determine the validity of a logical argument. | 1 |  |
| 1.5 | Use valid forms of deductive reasoning, including the Law of Syllogism. |  |  |
| 1.6 | Select and use various types of reasoning and methods of proof, as appropriate. (Include algebraic proof, inductive and deductive reasoning. | 1 |  |
| Review | Basic terms \& notation: point, line, line segment (measure segments), ray, angle (obtuse, acute, right, straight), plane, space, intersecting lines, parallel lines, skew lines, perpendicular lines, oblique lines, coincident lines. Measure segments and angles with ruler and protractor. | 1 |  |
| 2.4 | Find the slope of a line, given the graph or the coordinates of two points on the line. | 1 |  |
| Review | Use slope to determine parallel and perpendicular lines ( $\mathrm{y}=\mathrm{mx}+\mathrm{b}$ ). |  |  |
| 2.3 | Find the coordinates of the midpoint of a segment, using the midpoint formula. | 1 |  |
| 11.1a | Construct a line segment congruent to a given line segment. |  |  |
| 11.1b | Construct the bisector of a line segment. |  |  |
| 11.1c | Construct a perpendicular to a given line from a point not on the line. |  |  |
| 11.1d | Construct a perpendicular to a given line at a point on the line. |  |  |
| 3.2a | State the relationship between pairs of angles including linear pair, vertical angles, complementary and supplementary angles. | 2 |  |
| 3.6a | Solve practical problems by using the relationships between pairs of angles such as vertical angles, linear pairs, complementary, and supplementary angles. (Include algebraic applications) |  |  |
| 11.1e | Construct the bisector of a given angle. | 1 |  |
| 11.1f | Construct an angle congruent to a given angle. |  |  |
| 3.1 | Classify the types of angles formed by two lines and a transversal. | 1 |  |
| 3.2b | State the relationship between pairs of angles, including corresponding angles, alternate interior angles, and same-side (consecutive interior angles). |  |  |
| 3.6b | Solve practical problems by using the relationships between pairs of angles such as corresponding angles, alternate interior angles, and same-side interior angles. (Include algebraic applications) | 1 |  |
| 3.3 | Solve practical problems involving intersecting and parallel lines in a plane. | 1 |  |
| 4.1 | Use properties, postulates, and theorems to determine whether two lines are parallel. | 1 |  |
| 4.2 | Use algebraic, coordinate, and deductive methods to determine whether two lines are parallel. | 1 |  |

## Winchester Public Schools Geometry Pacing Guide Second Quarter



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## Third Quarter



## Winchester Public Schools Geometry Pacing Guide Fourth Quarter



