**Snake River High School**

**Geometry A**

**Course Description -** This course will cover the Tools for Geometry, Reasoning and Proof, Parallel and Perpendicular Lines, Congruent Triangles along with Writing/Organizing Proofs.

**Textbook-** Geometry by Glencoe & McGraw-Hill

|  |  |
| --- | --- |
| **Chapter 1** | **Tools of Geometry** |
| 1-1 | Identifying and naming points, line, and planes. (G.CO.1) |
| 1-2 | Measuring and comparing (congruence) linear segments. (G.MG.1) |
| 1-3 | Finding distance and midpoints of segments. (G.CO.1 , G.CO.12) |
| 1-4 | Measuring and classifying angles.(G.CO.1 , G.CO.12) |
| 1-5 | Identifying angle relationships. (G.CO.12) |
| 1-6 | Identifying and finding the measure of perimeter/ area of polygons. (G.GPE.7) |
| 1-7 | Identifying faces, vertices, bases, and edges of polyhedrons. (G.GMD.3) |

|  |  |
| --- | --- |
| **Chapter 2** | **Reasoning and Proofs** |
| 2-1 | Discovering conjectures and stating counterexamples. |
| 2-2 | Constructing conjunctions, disjunctions, and stating the truth value of such. |
| 2-3 | Stating the conditional statements. Performing the converse, inverse, and contrapositive of those conditional statements. |
| 2-4 | Compare and Contrast inductive vs. deductive reasoning. Finding truth values on the basis of Law of Detachment or Law of Syllogism. |
| 2-5 | Constructing paragraph proofs. (G.MG.3) |
| 2-6 | Constructing algebraic proofs. |
| 2-7 | Constructing column proofs. (G.CO.9 , G.CO.12) |
| 2-8 | Proving angle relationships using proofs. (G.CO.9) |

|  |  |
| --- | --- |
| **Chapter 3** | **Parallel and Perpendicular Lines** |
| 3-1 | Identifying transversals and classifying angle pairs. (G.CO.1) |
| 3-2 | Angles within transversals and identifying their relationships. (G.CO.1, G.CO.9) |
| 3-5 | Proving lines parallel using converse. (G.CO.9, G.CO.12) |
| 3-3 | Slopes of linear, parallel, and perpendicular lines. (G.GPE.5) |
| 3-4 | Equations of lines: slope-intercept, and point-slope. (G.GPE.5) |

|  |  |
| --- | --- |
| **Chapter 4** | **Congruent Triangles** |
| 4-1 | Classifying triangles by angles and sides. (G.CO.12) |
| 4-2 | Finding measures of interior and exterior angles of triangles. (G.CO.10) |
| 4-3 | Corresponding parts of polygons, when equal, will be congruent. (G.CO.7 , G.SRT.5) |
| 4-4 | Proving congruent triangles with SSS, SAS (G.CO.10 , G.SRT.5) |
| 4-5 | Proving congruent triangles with ASA, AAS (G.CO.10 , G.SRT.5) |
| 4-6 | Finding measures of sides/angles and Laws of isosceles and equilateral triangles. (G.CO.10 , G.CO.12) |
| 4-7 | Transformations: Reflections, Rotations, and Translations. (G.CO.6 , G.CO.7) |
| 4-8 | Triangles and Coordinate Proofs (G.CO.10 , G.GPE.4) |

Grading Policy:

Homework 25%

Quizzes 5%

Tests 60%

Final Test 10%