**Snake River High School**

**Geometry B**

**Course Description –** This section covers Relationships in Triangles, Quadrilaterals, Proportions and Similarity, and Transformations and Symmetry.

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

|  |  |
| --- | --- |
| **Chapter 5** | **Relationships in Triangles** |
| 5-1 | Find and understand the circumcenter and incenter of triangles. (G.CO.10 , G.MG.3) |
| 5-2 | Find and understand the centroid and orthocenter of triangles. (G.CO.10 , G.MG.3) |
| 5-3 | Understand relationships in one triangle. (G.CO.10) |
| 5-4 | Create and understand indirect proofs. (G.CO.10) |
| 5-5 | Understand and use the Triangle Inequality. (G.CO.10 , G.MG.3) |
| 5-6 | Understand and use the Hinge Theorem. (G.CO.10 ) |

|  |  |
| --- | --- |
| **Chapter 6** | **Quadrilaterals** |
| 6-1 | Find interior and exterior angles of polygons. (G.MG.1) |
| 6-2 | Know and use facts about parallelograms. (G.CO.11 , G.GPE.4) |
| 6-3 | Prove a quadrilateral is a parallelogram. (G.CO.11 , G.GPE.4) |
| 6-4 | Know and use facts about rectangles. (G.CO.11 , G.GPE.4) |
| 6-5 | Know and use facts about rhombi and squares. (G.CO.11 , G.GPE.4) |
| 6-6 | Know and use facts about trapezoids and kites. (G.GPE.4 , G.GPE.3) |

|  |  |
| --- | --- |
| **Chapter 7** | **Proportions and Similarity** |
| 7-1 | Understand equivalent ratios and use of cross products. (G.MG.3) |
| 7-2 | Prove polygons are similar. (G.SRT.2) |
| 7-3 | Prove that triangles are similar. (G.SRT.4 , G.SRT.5) |
| 7-4 | Use parallel lines and proportions to show triangles are similar. (G.SRT.4 , G.SRT.5) |
| 7-5 | Compare parts of similar triangles. (G.SRT.4 , G.SRT.5) |
| 7-6 | Identify similarity transformations. (G.SRT.2 , G.SRT.5) |
| 7-7 | Understand scale in maps and models. (G.MG.3) |

|  |  |
| --- | --- |
| **Chapter 9** | **Transformations and Symmetry** |
| 9-1 | Understand and perform reflections. (G.CO.4 , G.CO.5) |
| 9-2 | Understand and perform translations. (G.CO.4 , G.CO.5) |
| 9-3 | Understand and perform rotations. (G.CO.4 , G.CO.5) |
| 9-4 | Find compositions of transformations. (G.CO.2 , G.CO.5) |
| 9-5 | Identify symmetry in figures. (G.CO.3) |
| 9-6 | Understand and perform dilations. (G.CO.2 , G.SRT.1) |

Grading Policy:

Homework 25%

Quizzes 5%

Tests 60%

Final Test 10%