**Snake River High School**

**Geometry C**

**Course Description –** This section covers Right Triangles and Trigonometry, Probability and Measurement, Circles, Areas of Polygons and Circles, and Extending Surface Area and Volume.

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

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| **Chapter 8** | **Right Triangles and Trigonometry** |
| 8-1 | Find the geometric mean. (G.SRT.4 , G.SRT.5) |
| 8-2 | Understand and use the Pythagorean theorem. (G.SRT.8 , G.MG.3) |
| 8-3 | Understand and use special right triangles. (G.SRT.6) |
| 8-4 | Identify and use the sine, cosine, and tangent ratios. (G.SRT.6 , G.SRT.7) |
| 8-5 | Apply trigonometry to real-world problems. (G.SRT.8) |
| 8-6 | Understand and use the Law of Sines and Law of Cosines. (G.SRT.9 , G.SRT.10) |
| 8-7 | Understand ways to write and draw vectors. (G.GPE.6) |

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| **Chapter 13** | **Probability and Measurement.** |
| 13-1 | Identify sample spaces. |
| 13-2 | Use permutations and combinations. (S.CP.9) |
| 13-3 | Find probability related to geometric figures. (S.MD.7) |
| 13-4 | Use simulations to model probability. |
| 13-5 | Find probabilities of independent and dependent events. (S.CP.2 , S.CP.3) |
| 13-6 | Find probabilities of exclusive events. (S.CP.1 , S.CP.7) |

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| **Chapter 10** | **Circles** |
| 10-1 | Understand the basics of circles. (G.CO.1 , G.C.1) |
| 10-2 | Find central angles and arcs in circles. (G.C.2 , G.C.5) |
| 10-3 | Identify arc and chord relationships. (G.C.2 , G.MG.3) |
| 10-4 | Understand the rules for inscribed angles. (G.C.2 , G.C.3) |
| 10-5 | Identify and prove tangent lines on circles. (G.CO.12 , G.C.4) |
| 10-6 | Identify and measure angle relationships formed by secants of circles.  |
| 10-7 | Identify and measure segment relationships formed by secants of circles. |
| 10-8 | Find equations of circles and graph on a coordinate plane. (G.GPE.1 , G.GPE.6) |

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| **Chapter 11** | **Areas of Polygons and Circles** |
| 11-1 | Find areas of parallelograms and triangles. (G.GPE.7) |
| 11-2 | Find areas of trapezoids, rhombi, and kites. (G.MG.3) |
| 11-3 | Find areas of circles and sectors. (G.C.5 , G.GMD.1) |
| 11-4 | Find areas of regular polygons. (G.MG.3) |
| 11-5 | Find areas of similar figures. (G.MG.1) |

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| **Chapter 12** | **Surface Area and Volume** |
| 12-1 | Interpret representations of 3-D objects. (G.GMD.4) |
| 12-2 | Find surface area of prisms and cylinders. (G.GMD.3) |
| 12-3 | Find surface area of pyramids and cones. (G.GMD.1) |
| 12-4 | Find volumes of prisms and cylinders. (G.GMD.1, G.GMD.3) |
| 12-5 | Find volumes of pyramids and cones. (G.GMD.1 , G.GMD.3) |
| 12-6 | Find surface area and volume of spheres. (G.GMD.1, G.GMD.3)  |
| 12-7 | Understand the concept of spherical geometry. |
| 12-8 | Identify congruent and similar solids. |

Grading Policy:

Homework 25%

 Quizzes 5%

Tests 60%

Final Test 10%