**Snake River High School**

**Class-Algebra II B**

**Course Description – The students will study Quadratic Functions and Relations, Polynomials and Polynomial Functions, Inverses and Radical Functions and Relations.**

**Textbook- Algebra 2 by Glencoe & McGraw-Hill**

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| **Chapter 5** | **Quadratic Functions and Relations** |
| 5-1 | To Graph Quadratic Functions. (A.SSE.1.a, F.IF.9) |
| 5-2 | To Solve Quadratic Equations by Graphing. (A.CED.2, F.IF.4)) |
| 5-3 | To Solve Quadratic Equations by Factoring. (A.SSE.2. F.IF.8.a) |
| 5-4 | To learn to work with Complex Numbers. (N.CN.1, N.CN.2) |
| 5-5 | To learn to Complete the Square to Solve Quadratics. ((N.CN.7, F.IF.8.a) |
| 5-6 | To use The Quadratic Formula and the Discriminant. (N.CN.7, A.SSE.1.b) |
| 5-7 | To Transform with Quadratic Functions. (F.IF.8.a, F.BF.3) |
| 5-8 | To Graph Quadratic Inequalities. (A.CED.1, A.CED.3) |

Approximately 5 Weeks.

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| **Chapter 6** | **Polynomials and Polynomial Functions** |
| 6-1 | To perform Operations with Polynomials. (A.APR.1) |
| 6-2 | To Dividing Polynomials. (A.APR.6) |
| 6-3 | To work with Polynomial Functions. (F.IF.4, F.IF.7.c) |
| 6-4 | To Analyzing Graphs of Polynomial Functions. (F.IF.4, F.IF.7.c) |
| 6-5 | To Solving Polynomial Equations. (A.CED.1) |
| 6-6 | To use the Remainder and Factor Theorems. (A.APR.2, F.IF.7.c) |
| 6-7 | To find Roots and Zeros. (N.CN.9, A.APR.3) |
| 6-8 | To use the Rational Zero Theorem.  |

Approximately 5 Weeks.

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| **Chapter 7** | **Inverses and Radical Functions and Relations** |
| 7-1 | To do Operations with Functions and figure out Domain and Range. (F.IF.9, F.BF.1.b) |
| 7-2 | To work with Inverse Functions and Relations. (F.IF.4, F.BF.4.a) |
| 7-3 | To work on graphing Square Root Functions and Inequalities. ((F.IF.7.b, F.BF.3) |

Approximately 1 Week.

**Grading Breakdown:**

Homework- 25% Retakes will be given according to the retake policy

Quizzes- 5% which was designed by the leadership team.

Tests- 60%

Final Test- 10%