**Snake River High School**

**Class-Pre Calculus B**

**Course Description – The students will study Exponential and Logarithmic Functions and Relations, Trigonometric Functions, & Analytic Trigonometry.**

**Textbook-Precalculus- Graphical, Numerical, Algebraic by Pearson**

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| **Chapter 3** | **Exponential and Logarithmic Functions and Relations** |
| 3-1 | To Graph and Analyze Exponential and Logistic Functions. |
| 3-2 | To Solve Story Problems with Exponential and Logistic Modeling. |
| 3-3 | To Graph and Analyze Logarithms and Logarithmic Functions. |
| 3-4 | To Learn the Properties of Logs. |
| 3-5 | To Solve Logarithmic and Exponential Equations. |
| 3-6 | To Use Equations from the Mathematics of Finance to figure Interest, Present Value, and Future Value. |

Approximately 4 Weeks

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| **Chapter 4** | **Trigonometric Functions** |
| 4-1 | To Study Angles and there Degree and Radian Measure. |
| 4-2 | To Study Right Triangle Trigonometry. |
| 4-3 | To Extend Trigonometry to the Unit Circle. |
| 4-4 | To Graph and Find Key Points of Sine and Cosine. |
| 4-5 | To Graph and Find Key Points of Tangent, Cotangent, Cosecant, and Secant. |
| 4-7 | To Study the Inverse Trigonometric Functions and how to Graph them and find values of them. |
| 4-8 | To Solve Story Problems with Trigonometric Functions. |

Approximately 4 Weeks

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| **Chapter 5** | **Trigonometric Functions** |
| 5-1 | To Study the Fundamental Trigonometric Identities. |
| 5-2 | To Prove Trigonometric Identities. |
| 5-3 | To Prove and Work with The Sum and Difference Identities. |
| 5-4 | To Prove and Work with The Multiple-Angle Identities. |

Approximately 4 Weeks

**Grading Breakdown:**

Homework- 20% Retakes will be given according to the retake policy

Tests- 70% which was designed by the leadership team.

Final Test- 10%