2020-2021 School Year Weekly Calendar

***Short Weeks Are In Red***

**First Six Weeks**

**Week 1, August 12th-14th**

Solving Equations

Problem Solving

**Week 2, August 17th-21st**

Relations and Functions

Function Operations

Composition of Functions

**Week 3, August 24th -28th**

Symmetry

Function Inverses

Unit Test

**Week 4, August 31st –September 4th**

Rate of Change

Writing Two-Variable Linear Equations

Scatterplots

**Week 5, September 8th- 11th**

Regression Models

Two-Variable Linear Inequalities

Performance Task: Going on a Round Trip

**Week 6, September 14th- 18th**

Direct and Inverse Variation

Unit Test

Quadratic Inequalities

**Second Six Week**

**Week 1,**

**September 21st -25th**

Complex Numbers

Operations with Complex Numbers

Completing the Square

**Week 2, September 28th –October 2nd**

The Quadratic Formula

Modeling with Quadratic Equations

Transformations of Quadratic Equations

**Week 3, October 5th -9th**

Conic Sections: Parabolas

Unit Test

Solving Linear Systems Graphically

**Week 4, October 13th -16th**

Solving 3X3 Linear Systems

**S**olving Systems of Equations in Three Variables

Modeling with Linear Systems

**Week 5, October 19th – 23rd**

Linear Programming

Mixed Degree Systems

Modeling with Systems

**Week 6, October 26th – 30th**

Unit Test

Addition and Subtraction of Polynomials

Multiplication of Polynomials

**Third Six Weeks**

**Week 1, November 2nd -6th**

Factoring Polynomials: Double Grouping

Factoring Polynomials: Sum and Difference of Cubes

**Week 2, November 9th – 13th**

Factoring Polynomials Completely

Unit Test

**Week 3, November 16th – 20th**

Division of Polynomials

Synthetic Division and the Remainder Theorem

**Week 4, November 30th – December 4th**

The Rational Roots Theorem

Quadratic in Form Polynomials

**Week 5, December 7th – 11th**

Graphing Polynomial Functions

Unit Test

**Week 6, December 14th – 18th**

Cumulative Exam

**Fourth Six Weeks**

**Week 1, January 5th – 8th**

Matrices

Scalar and Matrix Multiplication

Cramer’s Rule

**Week 2, January 11th – 14th**

Unit Test

Multiplying and Dividing Rational Expressions

Adding and Subtracting Rational Expressions

**Week 3, January 19th -22nd**

Rational Equations

Vertical Asymptotes of Rational Functions

Graphing Rational Functions

**Week 4, January 25th -29th**

Modeling with Rational Functions

Graphs of Rational Functions

Unit Test

**Week 5, February 1st -5th**

Square Root Functions

The Cube Root Function

Graphing Radical Functions

**Week 6, February 8th -12th**

Rational Exponents

Adding and Subtracting Radicals

Multiplying Radicals

**Week 7, February 16th – 19th**

Dividing Radicals

Radical Equations and Extraneous Roots

Unit Test

**Fifth Six Weeks**

**Week 1, February 22nd – 26th**

Graphing Exponential Functions

Solving Exponential Equations by Rewriting the Base

Graphing Logarithmic Functions

**Week 2, March 1st – 5th**

Evaluating Logarithmic Expressions

Solving Logarithmic Equations Using Technology

Properties of Logarithms

**Week 3, March 8th -11th**

Solving Equations Using Properties of Logarithms

Base e

Unit Test

**Week 4, March 22nd – 26th**

Solving Exponential and Logarithmic Equations

Modeling with Exponential and Logarithmic Equations

**Week 5, March 29th – April 1st**

Geometric Sequences

Geometric Series

**Week 6, April 5th – 9th**

Comparing Exponential, Linear, and Quadratic Growth

Unit Test

**Week 7, April 13th – 16th**

Absolute Value Functions and Translations

Reflections and Dilations of Absolute Functions

**Sixth Six Weeks**

**Week 1, April 19th -23rd**

Absolute Value Functions

Absolute Value Inequalities

**Week 2, April 26th -30th**

The Cubing Function

**Week 3, May 3rd -7th**

Transformations of Functions

Domain and Range

**Week 4, May 10th – 14th**

Modeling with Functions

Expected Value

**Week 5, May 17th -21st**

Unit Test

**Week 6, May 24th -26th**

Cumulative Exam