2020-2021

2nd 9 Weeks Schedule

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| 11/9  \*\*\*\*\*\* | 11/10  \*\*\*\*\*\*  End Q1 | 11/11  Veterans Day (Students Out) | | 11/12  Monomials and Polynomials Review Day 1 | 11/13  Monomials and Polynomials Review Day 2 |
| 11/16  Polynomial Functions | 11/17  Turning Points | 11/18  Roots/Zeros of a Polynomial Function | | 11/19  Analyzing Functions and Graphs | 11/20  Quiz |
| 11/23  THANKSGIVNG BREAK  Teacher Flex day | 11/24  THANKSGIVNG BREAK  Teacher Flex Day | 11/25  THANKSGIVNG BREAK | | 11/26  THANKSGIVING BREAK | 11/27  THANKSGIVING BREAK |
| 11/30  Factoring Polynomials Day 1 | 12/1  Factoring Polynomials Day 2 | 12/2  Solving Polynomial Equations by Factoring | | 12/3  Dividing Polynomials Day 1 | 12/4  Dividing Polynomials Day 2 |
| 12/7  Review | 12/8  Unit 4 Test | 12/9  nth roots and simplifying radicals | | 12/10  Add, Subtract, and Multiply Radicals | 12/11  Dividing Radicals |
| 12/14  Rational Exponents | 12/15  Review Radicals and Rational Exponents | 12/16  Quiz | | 12/17  Solving Radical Equations Day 1 | 12/18  Solving Radical Equations Day 2 (Introduce Project) |
| 12/21 – 1/1 Christmas Break | | | | | |
| 1/4  Graphing Square Root Function | 1/5  Inverse Relations and Functions Day 1 | | 1/6  Inverse Relations and Functions Day 2 | 1/7  Review | 1/8  Unit 5 Test |
| 1/11  Simplifying Rational Expressions | 1/12  Multiplying/Dividing Rational Expressions | | 1/13  Adding/Subtracting Rational Expressions Day 1 | 1/14  Adding/Subtracting Rational Expressions Day 2 | 1/15  Quiz |
| 1/18  MLK No School | 1/19  Complex Fractions | | 1/20  Applications | 1/21  Graphing Rational Functions | 1/22  Solving Rational Equations Day 1 |
| 1/25  Solving Rational Equations Day 2 | 1/26  Review | | 1/27  TEST | 1/28  District CFA | 1/29  Review |
| 2/1  Review | 2/2  Semester Exams | | 2/3  Semester Exams | 2/4  Semester Exams End Q2 | 2/5 Professional Development Day (Students Out) |

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| **Lesson** | **Standard** |
| Monomials and Polynomials Review | A2.A.SSE.A.1 |
| Polynomial Functions | A2.F.IF.A.1 |
| Turning Points | A2.F.IR.A.1 |
| Roots/Zeros of a Polynomial Function | A2.A.APR.A.2, A2.F.IF.A.1 |
| Analyzing Functions and Graphs | A2.F.IF.A.1 |
| Factoring Polynomials | A2.A.SSE.A.1 |
| Solving Polynomial Equations by Factoring | A2.A.APR.A.2 |
| Dividing Polynomials | A2.A.APR.A.1, A2.A.APR.C.4 |
| Nth roots and simplifying radicals | A2.A.REI.A.2 (Supporting) |
| Add, Subtract and Multiply Radicals | A2.A.REI.A.2 (Supporting) |
| Dividing Radicals | A2.A.REI.A.2 (Supporting) |
| Rational Exponents | A2.N.RN.A.1 |
| Review Radicals and Rational Exponents | A2.N.RN.A.2 |
| Solving Radical Equations | A2.A.REI.A.2 |
| Graphing Square Root Function | A2.F.IF.A.1 |
| Inverse Relations and Functions | A2.F.IF.A.1, A2.F.BF.B.4 |
| Simplifying Rational Expressions | A2.A.SSE.A.1, A2.A.APR.C.4 |
| Multiplying/ Dividing Rational Expressions | A2.A.SSE.A.1, A2.A.APR.C.4 |
| Add/ Subtract Rational Expressions | A2.A.SSE.A.1, A2.A.APR.C.4 |
| Complex Fractions | A2.A.SSE.A.1, A2.A.APR.C.4 |
| Applications | A2.A.CED.A.1 |
| Graphing Rational Functions | A2.F.IF.A.1 |
| Solving Rational Equations | A2.A.REI.A.2 |

A2.N.RN.A.1: Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.

A2.N.RN.A.2: Rewrite expressions involving radicals and rational exponents using the properties of exponents

A2.A.SSE.A.1: Use the structure of an expression to identify ways to rewrite it. (Polynomial and Rational Expressions)

A2.A.APR.A.1: Know and apply the Remainder Theorem: For a polynomial p(x) and a number a, the remainder on division by x-a is p(a), so p(a)=0 if and only if (x-a) is a factor of p(x).

A2.A.APR.A.2: Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial.

A2.A.APR.C.4: Rewrite rational expressions in different forms.

A2.A.CED.A.1: Create equations and inequalities in one variable and use them to solve problems (linear, quadratic, rational, exponential)

A2.A.REI.A.2: Solve rational and radical equations in one variable, and identify extraneous solutions when they exist.

A2.F.IF.A.1: For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given verbal description of the relationship.

A2.F.BF.B.4: Find inverse functions when the given function is one-to-one