SECONDARY MATH 3 (Math 1010 Essentials)

Unit Name/#
Math Book Chapter I Can Statements Class Lesson Goals
Core
Date Standard
Taught

Unit 1 Linear Equations

Day 1
I can determine the slope of a line when given a graph.
Day 1
I can determine the slope of a line when given two points.
Day 1
(Student) will be able to write an equation in slope-intercept form when given the slope and y- intercept, a point and a slope, and/or when given two points on a graph with 80% accuracy over two trials.
Day 1
I can draw a positive, negative and zero slope as well as write three facts about slope. I can write an equation in Slope-intercept form when given the slope and y-intercept. Day 1 I can graph a linear equation Aug/Sep
Day 2
I can write an equation in slope- intercept form when given a point and a slope.
Day 2
I can write an equation in slope- intercept form when given two points.
Day 2
I can write an equation in slope- intercept form from standard form.
Day 3
I can determine the slope of a line parallel to a given line.
Day 3
I can determine the slope of a line perpendicular to a given line.
Day 3
I can solve a real-world problem by writing an equation in slope- intercept form to evaluate. Day 4 **Review** Day 5 **Test**

Unit 2 Absolute Value Equations

I can recognize and solve an
https://www.youtube. absolute value equation
com/watch?v=nAGYUcy4mhM Sep
I can recognize the translations of an absolute value equation and then graph it
On an assessment of 10 or more equations, student will be able to recognize and graph linear and absolute value graphs with 80% accuracy over two trials. I can draw a diagram showing similarities and differences between absolute value and linear equations
https://www.youtube. com/watch?v=wrof6Dw63Es
https://www.youtube. com/watch?v=eXC0aKzGoKo

Unit 3 Solving Systems of Equations

Day 1
I can solve a system of linear equations in two variables by graphing and substitution. Sep
I can solve a system of linear equations in two variables by Day 2 elimination.
Day 3
I can solve problems that can be modeled by a system of linear equations. Day 4 Review Day 5 Test

Math II Unit 4
Ch. 3 QUADRATIC FUNCTIONS

Day 1

Use unit worksheets from rachel **Sep/Oct**

Day 1
I can write a polynomial in standard form. Pgs. 115-122 I can solve for the axis of symmetry of a quadratic function. Pgs. 128-134
Day 1
Given 3 to 5 quadratic equations, (student) will determine the vertex, axis of symmetry, and give the domain and range with 80%

accuracy over 2 trials.
Day 1
I can determine the vertex of a parabola and tell if it is a minimum or maximum. Pgs. 115-122 I can determine the domain and range of a given function Pgs. 115-122 Day 2 I can graph a given function. Pgs. 115-122 Day 3 Review Day 4 Test
Unit 5
Math II Ch. 2 FACTORING POLYNOMIAS
Day 1
I can find the Greatest Common Factor (GCF) of a given Polynomial. Day 1 Extra Practice worksheet on GCF
Day 2&3
Given an assessment of 5-10 polynomials - including special cases - (student) will factor with 80% accuracy over two trials. Day 2&3 Might need one more day
Day 4 & 5
I can factor a trinomial with and without the first term having a coefficient. Pgs. 79-85 & 93-101
I can factor polynomials with four terms by grouping. Pgs. 86-91 & 102-108 Day 5 Review Day 6 Test
Unit 6
Math II Ch. 3
Day 1
I can solve a quadratic equation by graphing. Pgs. 148 plus wkst **Oct**
Day 2
I can solve a quadratic equation by finding and using square roots. Pgs. 150-154
Day 3
I can solve a quadratic equation by factoring. Pgs. 158-167
Day 4
I can solve a quadratic equation by completing the square. Pgs. 168-175
Given 5 to 10 quadratic equations, (student) will solve using the best method (i.e. graphing, factoring, completing the square, or quadratic formula) to achieve the correct solution with 80% accuracy over two trials. Days 6&7 Review Day 7 and/or 8 Test
Unit 6 WORKING WITH POLYNOMIALS
Day 1
I can solve a quadratic equation by Day 5
using the quadratic formula. Pgs.176-185
Polynomial Pretest and then... I can **Math** classify a Polynomial based on its
III Standard degree and number of terms. Pgs. 47-52
2 Oct/Nov
Day 1 I can add and subtract Polynomials. Pgs. 47-52
Given an assessment of adding, subtracting, and multiplying 10 to 20 polynomials, (student) will be to solve with 80% accuracy over two trials. Day 2 I can multiply binomials. Pgs. 61-68 Day 3 I can multiply special cases & Review Pgs. 70-78 Day 4 Test
Unit 7 Dividing Polynomials Dec
I can divide a polynomial by a monomial I can divide by a polynomial I can use synthetic division to divide a polynomial by a binomial I can use the remainder theorem to evaluate polynomials. Review Test
Unit 8 Rational Expressions Jan
I can simplify rational expressions. I can multiply and divide rational expressions. I can add and subtract rational expressions.
Unit 9
Math III Standard 2 I can simplify a number using the imaginary unit i. Feb I can add and subtract complex numbers. I can multiply and simplify complex numbers
Unit 10
Math II Ch. 3 COMPLEX NUMBERS
Math III Math II
CIRCLES IN THE COORDINATE
Standard Ch. 3
PLANE
2 I can write the equation of a circle. March
I can find the center and radius of a circle.
Unit 11
Unit 12
Day 1
I can determine the missing side of a right triangle using the pythagorean theorem.

Day 2
I can simplify radicals and apply this concept when using the pythagorean theorem.
Day 3
I can multiply and divide radical equations.
Day 3
I can determine the missing side of a 45 45 90 special right triangle.
Day 4
I can determine the missing side of a 30 60 90 special right triangle.
Day 5
I can solve for missing sides of either special right triangle. Day 6 Review for unit 5 Day 7 Test

Unit 13
Day 1
Using trigonometric ratios, (student) will be able to determine the side lengths and given angles with 80% accuracy over two trials.
Day 2
I can determine the trigonometric ratios for sine, cosine, and tangent of a given angle. I can use the sine, cosine, and tangent ratios to determine the side lengths in a right triangle.
Day 3
I can use the sine, cosine, and tangent ratios to determine the angle measures in right triangles. Day 4 Review Day 5 Test

Unit 14
Probability April

Unit 15
I can graph exponential functions May I can solve exponential functions. I can understand logarithmic functions I can understand and use properties of logarithms I can understand and evaluate common and natural logarithms. I can solve exponential and logarithmic applications

Unit ?
I can use exponent rules to simplify exponential expressions with addition. Oct
I can use exponent rules to simplify exponential expressions with multiplication.

I can use exponent rules to simplify exponential expressions with division.