

COLLEGE PREP MATH_MHS

Guide

A/B/C (55/63 Days)			
Resource(s)/ Components	Focus/Topic	Standard(s)	Duration of Instruction
Guided Notes	Review Multiplying Binomials and Factoring	SEC MATH II: A.SSE.3	1 Day
Unit 1, Lesson 1 Guided Notes	Identify and Find Slope and Y-Intercept to Create Equations	SEC MATH II: F.IF.7	1 Day
Unit 1, Lesson 2 Guided Notes	Identify and Evaluate Functions, Find Domain and Range, and Identify Domain Restrictions	SEC MATH I: F.IF.1 F.IF.5	3-4 Days
Unit 1, Lesson 3 Guided Notes	Identify Domain and Range, Intervals of Constancy, Increasing and Decreasing Behavior, Maximums, and Minimums Given a Graph Determine Whether a Function Is Even, Odd, or Neither Using Algebra Graph Piecewise-Defined Functions	SEC MATH I: F.IF.4 F.IF.5 F.BF.3 SEC MATH II: F.IF.7	2-3 Days
Unit 1, Lesson 4 Guided Notes	Sketch Graphs Using Transformations Describe Transformations of a Graph Given an Equation	SEC MATH I: F.BF.3	2-4 Days
Unit 1, Lesson 5 Guided Notes	Perform Function Operations: Addition, Subtraction, Multiplication, Division, and Composition Evaluate Functions Using Function Operations	SEC MATH I: F.BF.1	1-2 Days
Unit 1, Lesson 6 Guided Notes	Find Inverses of Functions Using a Graph and an Equation Use Composition to Show That Two Functions Are Inverses Determine Whether a Function Has an inverse	SEC MATH III: F.BF.4	1 Day
Unit 2, Lesson 1 Guided Notes	Find the Vertex, Axis of Symmetry, and X-Intercepts of a Quadratic Function Graph Quadratics in Vertex Form and Identify Transformations Solve Real-World Problems Involving Quadratic Functions	SEC MATH II: N.CN.9 A.SSE.1 A.SSE.3 A.REI.4 F.IF.7 F.IF.8 F.IF.9 F.BF.3	1-2 Days
Unit 2, Lesson 2 Guided Notes	Graph Polynomials Identify End Behavior, Zeros, and Behavior at Zeros Form a Polynomial Given the Zeros	SEC MATH II: F.IF.7 SEC MATH III: A.APR.3 F.IF.4	2-3 Days
Unit 2, Lesson 3 Guided Notes	Use Synthetic Division and Long Division to Divide Polynomials Factor Polynomials Completely and Use the Remainder Theorem to Evaluate Functions	SEC MATH III: A.APR.1 A.APR.2 A.APR.3	2 Days
Unit 2, Lesson 4	Understand What a Complex Number Is Multiply, Divide, Add, and Subtract Complex Numbers Simplify Radicals That Contain i	SEC MATH III: N.CN.5	2 Days

Guided Notes			
Unit 2, Lesson 5 Guided Notes	Find All Real and Complex Zeros of a Polynomial	SEC MATH II: N.CN.8 N.CN.9 SEC MATH III: A.APR.2	1-2 Days
Unit 2, Lesson 6 Guided Notes	Simplify, Multiply, Divide, Add, and Subtract Rational Expressions Solve Rational Expressions Graph Rational Expressions, Including Correct Asymptotes, End Behavior, and Intercepts	SEC MATH I: A.SSE.1 SEC MATH II: F.IF.7 SEC MATH III: A.APR.7 A.CED.1	4-6 Days
Guided Notes	Solve Rational Inequalities	Not In Core	2 Days
Unit 3, Lesson 1 Guided Notes	Exponential Functions	SEC MATH I: F.IF.3 F.IF.9 SEC MATH II: A.SSE.3	3 Days
Unit 3, Lesson 2 Guided Notes	Logarithmic Functions	SEC MATH III: A.REI.11	2 Days
Unit 3, Lesson 3 Guided Notes	Properties of Logarithms	SEC MATH III: F.LE.4	2 Days
Unit 3, Lesson 4 Guided Notes	Solving Exponential and Logarithmic Equations	SEC MATH III: F.BF.5	2-3 Days
Lesson 2 Guided Notes aleks.com	Review and Practice Test		5-10 Days

*2 Extra Days