

Math 2 Unit 1: Modeling with Quadratics

Date	Day of Unit	Standard	Lesson	Students will be able to...	Homework
Wed 1/25	1	Review from Math 1	“Factoring Bootcamp” Day 1 Algebra 1 Chapter 9.5, 9.7, 9.8	-Factor out GCF -Factoring using grouping -Factor ax^2+bx+c when $a=1$ -Factor difference of Squares	Packet Pg. 120 (1-30) Packet Pg. 124 (1-30, skip 9, 10, 14, 27) Packet Pg. 126 (2-14 even, 37-42) Challenge 9.5, 9.7, 9.8
Thurs 1/26	2	Review from Math 1	“Factoring Bootcamp” Day 2 Algebra 1 Chapter 9.6	-Factor out GCF -Factor ax^2+bx+c when $a>1$	Packet Pg. 122 (left column 1-34) Challenge 9.6
Fri 1/27	3	NC.M2.N- RN.3	1.1 Rational/Irrational/Complex Algebra 1 Chapter 11.1 Algebra 2 Chapter 5.6	-Simplify a radical involving products and quotients (not necessarily perfect squares). Understand the square root of a -1 is imaginary.	Packet Pg. 146 (3-60 mult. of 3) Packet Pg. 66 (26-28, 41-43, 56-58) Challenge 11.1, 5.6
Mon 1/30	4	NC.M2.N- RN.3	Quiz on Factoring / Rational / Irrational / Complex 1.2 Polynomials (Exponent self-study?) Focus on add/subtract/multiply rules) Algebra 1 Chapter 9.1	-Describe polynomials -Add and Subtract Polynomials	Packet Pg. 112 (33-57 mult. of 3) Challenge 9.1
Tues 1/31	5	NC.M2.N- CN.1 NC.M2.A- REI.1	1.3 Solving Quadratics Algebra 1 Chapter 10.4 and Algebra 1 Chapter 10.5	-Solve quadratic equations by graphing. -Solve quadratic equations using square roots.	Packet Pg. 134 (1-6, 46-53) Packet Pg. 136 (31-52)
Wed 2/1	6	NC.M2.A- REI.4a NC.M2.A- REI.4b NC.M2.F- IF.8	1.3 Solving Quadratics Algebra 1 Chapter 10.7 and Algebra 1 Chapter 10.8	-Use the quadratic formula when solving quadratic equations. -Choose an appropriate method for solving a quadratic equation.	Packet Pg. 140 (1,4,10,11,18,26) Packet Pg. 142 (left column 1-27)
Thurs 2/2	7	NC.M2.A- SSE.3 NC.M2.A- APR.1	1.4 Factoring/Completing the Square Algebra 1 Chapter 10.6	-Factor ax^2+bx+c when $a>1$ -Use Completing the Square to solve quadratic equations.	Packet Pg. 138 (left column every other problem: 1, 5, 9, 13, etc)

Fri 2/3	8	NC.M2.F- IF.8 NC.MC.F- IF.9	1.4 Factoring/Completing the Square Algebra 2 Chapter 5.7	-Solve and rewrite equations/functions by Completing the Square. *Ultimate Goal: Be able to move from standard form to vertex form.	Packet Pg. 68 (9-23 odd)
Mon 2/6	9	First ½ Standards	Review		Unit 1 Test 1 Review Sheet
Tues 2/7	10	First ½ Standards	Test		Systems of Equations Worksheet multiples of 3
Wed 2/8	11	NC.M2.A- APR.1 NC.M2.A- APR.3	1.5 Characteristics of Quadratic Graphs Algebra 1 Chapter 10.1	-Graph quadratic functions of the form $y = ax^2$ and $y = ax^2 + c$	Packet Pg. 128 (left column 1– 28)
Thurs 2/9	12	NC.M2.A- SSE.1b NC.M2.A- CED.2 NC.M2.F- BF.1	1.6 Graphing (and Solving) Quadratics Algebra 1 Chapter 10.2	-Graph quadratic functions of the form $y = ax^2 + bx + c$	Packet Pg. 130 (left column 1-19)
Fri 2/10 ER	13		Quiz		
Mon 2/13	15	NC.M2.A- SSE.1a/b NC.M2.A- APR.1 NC.M2.A- CED.1/2/3 NC.M2.A- REI.7 NC.M2.F- IF.4/7/9	1.7 Quadratic Systems Algebra 2 Page 577	-Solve systems that include quadratic equations both algebraically and graphically.	Packet Pg. 577
Tues 2/14	16	NC.M2.A- CED.1	1.8 Quadratic Inequalities Algebra 2 Page 269	-Use a graphing calculator to graph individual quadratic inequalities and systems of quadratic inequalities in the coordinate plane.	Packet Pg. 269
Wed 2/15	17	All Standards	Review	Problems in Packet	Chapter 9 and Chapter 10 Test Review
Thurs 2/16	18	All Standards	Test		No Homework

Homework Grade:

