

Q u A d r a T i c s

Follow the order below, unless instructed otherwise. You must get Mr. Webb to sign off in the right box before you can advance to the next box. For lines that are “videos”, *you will need to show that you copied and worked through a problem with the presenter in the video.* These notes will serve as your Unit 4 notes, so be sure to include anything you think will be helpful for you. You will not always need to watch entire videos, but you must show that you have gained enough knowledge to start practicing. As always, ask Mr. Webb if you have any questions!

REVIEW: GREATEST COMMON FACTOR

Monomial Greatest Common Factor	Video	http://bit.ly/13HS0om	
	Practice	http://bit.ly/13HSGKj	

FACTORING QUADRATIC EXPRESSIONS

Factoring quadratic expressions	Video	http://bit.ly/13HSVob	
	Practice	http://bit.ly/13HT2Rb	
	Exit	---	

SOLVING A QUADRATIC EQUATION BY FACTORING

Solving a quadratic equation by factoring	Video	http://bit.ly/13HUtiC	
	Practice	http://bit.ly/13HUIzr	
	Exit	---	

DIFFERENCES OF SQUARES

Factoring Special Products (<i>Skip ahead to: 5:00</i>)	Video	http://bit.ly/13JaAgA	
	Practice 1	http://bit.ly/13JaXI8	
	Practice 2	http://bit.ly/Xf1tgS	
BONUS!	Practice 3	http://bit.ly/13JbbPm	
	Exit	---	

FACTORING BY GROUPING

Factor by Grouping and Factoring Completely	Video	http://bit.ly/13JbV7d	
	Practice	http://bit.ly/Xf2OnH	
	Exit	---	

GRAPHING QUADRATIC EQUATIONS IN STANDARD FORM

Roots & Vertex of a Parabola	Video 1	http://bit.ly/13Jeg1W	
Graphs of Quadratic Functions	Video 2	http://bit.ly/13Jdge4	
	Practice	http://bit.ly/13JfwlM	
	Exit	---	

SOLVING QUADRATIC EQUATIONS BY TAKING SQUARE ROOTS

Solving Quadratic Equations by Square Roots	Video	http://bit.ly/13JgPkA	
	Practice	http://bit.ly/13JgRJg	
	Exit	---	

SOLVING QUADRATIC EQUATIONS BY COMPLETING THE SQUARE

Solving Quadratic Equations by Completing the Square	Video	http://bit.ly/13JhfaO	
	Hands-On	Algetiles	
	Practice 1	http://bit.ly/Xf992F	
	Practice 2	http://bit.ly/Xf9cLF	
	Exit	---	

GRAPHING QUADRATIC EQUATIONS IN VERTEX FORM

Parabola vertex and axis of symmetry	Video	http://bit.ly/13JhGfJ	
	Practice	http://bit.ly/13JigiW	
	Activity 1	Sliders & Graphic Organizer	
	Activity 2	3 Acts – Class Activity	
	Exit	---	

IMAGINARY NUMBERS

Introduction to i and Imaginary Numbers	Video 1	http://bit.ly/13JjmuZ	
Rewriting Radicals using Complex Numbers	Video 2	http://bit.ly/UyUeT4	
What's the point of Imaginary Numbers?	Video 3	http://bit.ly/13JkbnJ	
	Worksheet	---	
	Exit	---	

THE QUADRATIC FORMULA

The Quadratic Formula Song	Video 1	http://bit.ly/UyV3LC	
Using the Quadratic Formula	Video 2	http://bit.ly/UyVkhm	
Complex roots for a Quadratic	Video 3	http://bit.ly/UyVG7N	
	Practice	http://bit.ly/UlozEj	
	Worksheet	---	
	Exit	---	

GRAPHING AND SOLVING QUADRATIC INEQUALITIES

Solving Quadratic Inequalities – The Basics	Video 1	http://bit.ly/UyWo4Q	
Solving Quadratic Inequalities – A Common Mistake	Video 2	http://bit.ly/UyWFVC	
	Worksheet	---	
	Exit	---	

MAXIMIZING AND MINIMIZING QUANTITIES WITH QUADRATICS

	Video		
	Worksheet	---	
	Exit	---	

