

MPM 2D Learning Goals & Success Criteria
Chapter 6: Quadratic Equations

Learning Goals	
I will be able to: <ul style="list-style-type: none"> • Solve quadratic equations and interpret their solutions. (QR3). • Apply my understanding of quadratic relations to a variety of problem solving situations (QR4). 	
Success Criteria	
I can: <ul style="list-style-type: none"> • Determine and describe the connection between the factors of a quadratic expression and the x – intercepts. • Interpret real and non - real roots of quadratic equations and relate the roots to the x - intercepts of the relation. • Sketch the graph of a quadratic relation in standard form using a variety of methods. • Solve quadratic equations that have real roots using a variety of methods. • Solve problems arising from real life situations that can be modeled by quadratic relations. 	
Test Information:	
Your test is Monday, June 8 th . Please make sure that you have reviewed the notes and lessons for this unit and completed the assigned work. It is also a good idea to look over the other chapters of quadratics and review those tests to learn from errors, as this chapter asks you to use all of those skills as well.	
The test will have TWO PARTS . The first part will be completed online in Edsby and will have 5 to 7 multiple choice questions as well as two short answer questions The second part will be written and then submitted to me as a single PDF in Edsby . Remember, you can write on lined/graph paper, or print it out, write on it and submit that way.	
There is a more detailed test outline below. Please refer to that while you study.	
Questions to Expect	<ul style="list-style-type: none"> • 5 to 7 multiple choice questions asking for the number of real roots (discriminant, signs of a and k), the roots of equations, and the appropriate strategies to use (similar to the quiz). • Short answer question – Explain the error in a student solution, and offer them hints to avoid the mistake next time. • Short answer question – Explain what the discriminant is and how we use it.
	<ul style="list-style-type: none"> • Find the roots of a quadratic equation using the most appropriate method (think about the form of the equation!). • Short answer question - Use a diagram to clearly indicate why zeros are a specific example of roots (solutions) for a quadratic equation. Define roots (or solutions) with respect to an equation (values of x that satisfy the equation for a given value of y). • Choose one of two word problems with equations provided – DO WHAT THE QUESTION ASKS! (maximum/minimum-find the vertex with $x=-b/2a$ or CTS; other values of y-find roots by factoring or quadratic formula) • Choose one of two problems where you have to make the equation (area, walkway, fencing, etc.).
Suggested Review:	p. 361 #1, 2, 8 – 12, 14, 15 p. 363 #2, 5 – 7, 9 <div style="float: right; text-align: right;"> If you want extra practice with a specific topic let me know and I will scrape up a handout 😊 </div>