

MPM 2D Learning Goals & Success Criteria
Chapter 4: Factoring Algebraic Expressions

Learning Goals	
I will be able to: <ul style="list-style-type: none"> Solve quadratic equations and interpret their solutions. (QR 3) Apply my understanding of quadratic relations to a variety of problem solving situations. (QR 4) 	
Success Criteria	
I can: <ul style="list-style-type: none"> Factor polynomial expressions involving common factors, trinomials, difference of squares and perfect squares. 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. Determine the zeros and the maximum or minimum value of a quadratic equation by using algebraic techniques or its graph. Solve problems arising from real life situations that can be modeled by quadratic relations. 	
Test Information:	
Your test is Tuesday, May 5 th . There will be an online component that covers common factoring, factoring with shortcuts (pick the factored form from a list of choices), and a short answer question about those shortcuts. The written part will include factoring with decomposition (show your process), a short answer question, a graph, and a word problem. More detail is provided below. If possible, please check in to Teams for attendance at 11:00. If you can stay there then you can ask questions if you have them while you write.	
There is a more detailed test outline below. Please refer to that while you study.	
To study: <ul style="list-style-type: none"> Watch the video lessons and review your notes. Practice the skills – assigned questions or the review suggested. 	
What to Expect:	<ul style="list-style-type: none"> 10 multiple choice questions – similar to the common factoring quiz, and then a few expressions factored using shortcuts. Explain one short cut (like the short answer question on the second quiz)
	<ul style="list-style-type: none"> Factor using decomposition (show me the process) Explain how the extended distributive property from chapter 3 is related to factoring with decomposition (see note for 4.4). Factor and then accurately graph a parabola. You'll have to find zeros, y – intercept (let $x = 0$) and vertex. One word problem. Think about what you need to find (what does the real life point correspond to on the graph of a parabola? Your options are zeros, vertex or y-intercept).
Suggested Review Questions: p. 240 #2, 3, 6, 7, 9 – 11, 13 – 17, 19; p. 242 #3, 5 – 9	
Notes: Please study. Do the review, but more importantly review your notes & quizzes, make notes, etc. If you need help, message me by 8 pm on Monday. Also, we have an online session on Monday from 11 until whenever your questions have been answered.	