St. Matthew Catholic School	Subject: Algebra I (HS Algebra 1,2)		Teacher: Mr. Boegel Mr. Motamed
	Unit 05 – Factoring, Solving, Analyzing Quadratic Eqns. and Functions		

Timeline:	*PEARL, Character Traits*	*Common Core Standards*	*"I Can" Statements*	*Content*	*Skills*	*Assessment*	*Instructional Strategies & Resources*
March 31 to April 25, 2014	L6 L3 P1 Compassion Integrity Sincerity Being Safe Selflessly Helpful Respectful Responsible Building Friendships Caring Active Christian Not giving up Persevering	F-LE 1 (Quadratic Function)	-- I can solve simple quadratic equation by taking square-root of both sides of the equation. -- I can write / rearrange quadratic equation in standard form; $ax^2+bx+c=0$ -- I can solve quadratic equation by use of quadratic formula -- I can calculate and analyze the 'discriminant' -- I can calculate the vertex -- I can solve, analyze, sketch quadratic equation by analyzing the 'discriminant' -- I can use quadratic model to analyze real world / physics problems	Solve simple quadratic equation in the form of $x^2=c$, by taking square roots Solve quadratic equation in the form of: $ax^2+bx=c$ by use of Quadratic Formula: $x= b^2 +- SQR(b^2-4ac)/2a$ Calculate and analyze discriminant: b^2-4ac for when --- there are two real solutions --- there are two real, repeating solutions --- there is NO Real Solution -- Graph / Sketch Quadratic Function ---- Identify vertex ---- Identify localized Min or Max point ---- Identify Roots if any ---- Describe the general shape of function	-- Take Square Roots and Approximate Sqr. Roots -- Solve Simple Quadratic Equation -- Use Quadratic Formula to solve Quadratic equation -- Calculate 'discriminant' -- Calculate Vertex and identify Min or Max -- Sketch Function	-- Informal QA in the class -- Daily single question and discussion -- Successfully complete and turn in HW's ($\sim$ 1 to 2 per week) -- Successfully complete Quizzes -- Successfully ($\sim$ 1 per week) complete unit assessment ($\sim$ 1 per month) -- Quizzes and Tests are designed to evaluate, reinforce and provide feedback o all the skills stated in this unit.	-- Text Book, Chapter 9 -- Worksheets (posted) -- Mr. Motamed's website: www.MrMTeaching Math.com -- Class Notes (posted) -- Mixed Review -- Worksheets from Punch line Algebra, Marcy Mathworks -- Math Circle -- Peer-Peer Teaching

EE= Expressions and Equations SSE= Seeings Structure in Expression CED= Creating Equation REI= Reasoning with Equations and Inequalities RP= Ratios and Proportional RelationshipsText Book: Mathematics Concepts and Skills, Course 1; Larson, Boswell, Kanold, Stiff; McDougal Littell