St. Matthew Catholic School	**Subject: Algebra I (HS Algebra 1,2)**				**Teacher: Mr. Boegel Mr. Motamed**
	Unit 04 – Factoring, Solving, Analyzing Polynomials				

Timeline:	*PEARL, Character Traits*	*Common Core Standards*	*"I Can" Statements*	*Content*	*Skills*	*Assessment*	*Instructional Strategies & Resources*
February 17 to March 28, 2014	L6 L3 P1 Compassion Integrity Sincerity Being Safe Selflessly Helpful Respectful Responsible Building Friendships Caring Active Christian	A-APR 1 (Polynomials)	-- I can identify polynomials by degree of the polynomials. -- I can describe components of a polynomial -- I can write polynomials in 'Expanded form' and in 'Factored form. -- I can recognize special factored polynomials; --- Difference Of Two Squares --- Square of Sum or Differences -- I can solve factor trinomials by the 'diamond' method (if factorable) -- I can solve, find roots of a polynomial by factoring	Identify polynomials of various types (by Order / Power and by Number of Terms) Recognize $a^2-b^2 = (a+b)\,(a-b)$ And $(a +or – b)^2 =$ $a^2 + or – 2ab + b^2$ Factor by 'Diamond' method Analyze Polynomials; --- Calculate Roots or Solutions (fundamental solutions = roots)	-- Identify order of a polynomial -- Identify number of terms within a polynomial -- Recognize special polynomials and write factor form immediately; -- Difference Of Two Squares (DOTS) $a^2-b^2 = (a+b)\,(a-b)$ Square of Sum or Difference: $a +or – b)^2 =$ $a^2 + or – 2ab + b^2$ -- Calculate, analyze roots of a polynomial by factoring	-- 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 10 -- Worksheet (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