St. Matthew Catholic School		**Subject: Algebra I (HS Algebra 1,2)**				**Teacher: Mr. Boegel Mr. Motamed**	
		Unit 02 – Writing, Graphing, Solving and Analyzing Linear Equations					
Timeline:	*PEARL, Character Traits*	*Common Core Standards*	*"I Can" Statements*	*Content*	*Skills*	*Assessment*	*Instructional Strategies & Resources*
September 20 to December 20 2013	L6 L3 P1 Compassion Integrity Sincerity Being Safe	8.F 1, 2, 3, 4, 5 (Functions) A-CED 1, 2, 3, 4 (Creating – writing – Equations / Linear Equations) A-REI 1 (Reasoning with Equations and Inequalities)	-- I can plot points and graph lines on x-y coordinate plan using table of values -- I can calculate slope of a line graphically -- I can calculate slope of a line mathematically -- I can write and graph equation of Horizontal and Vertical Lines -- I can write and graph equation of a line in Slope-Intercept form -- I can write and graph equation of a line in Point-Slope form -- I can write and graph equation of a line in Standard form -- I can write equation of a line parallel with another line and passing through a given point. -- I can write equation of a line perpendicular to another line and passing through a given point -- I can use linear model to solve word problems	Plot points and graph lines, use table of values Calculate slope of a line graphically and mathematically Define, express and graph Horizontal and Vertical lines Use equation of a line in Slope-Intercept, Point-Slope and in Standard form and graph lines Write equation of a line Parallel to another line or Perpendicular to another line and passes through a given point. Solve linear word problem, using linear model.	-- Learn how to graph and identify x-y Coordinate Plane: x-axis, y-axis, origin, Quadrants, Ordered Pair -- Learn related vocabulary: Coordinate Plane, x-axis, Input variable, y-axis, Output variable, Origin, Slope, Rate of Change. Intercept Points, y-intercept, x-intercept -- Plot points and Graph Lines use Table of Values -- Determine if an ordered pair is a solution to a given linear equation -- Calculate slope of a line passing through two given points -- Express equation of line and graph lines in slope-intercept or point-slope -- Express if and only if conditions for Parallel and for Perpendicular lines. -- Solve word problems by setting up a linear model. Analyze viable solutions, discuss cost effectiveness and optimization	-- Informal QA in the class -- Daily single question and discussion -- Successfully complete and turn in HW's (~ 1 to 2 per week) -- Successfully complete Quizzes -- Successfully (~ 1 per week) complete unit assessment (~ 1 per month) -- Quizzes and Tests are designed to evaluate, reinforce and provide feedback o all the skills stated in this unit.	-- Text Book, Chapters 4, 5, 6 -- 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