Coordinate Algebra 8 **Name: _____**

Unit 1: Expressions, Equations, & Inequalities **Week of Sept 5- Sept 16**

Graduation Competencies	Learning Targets	Practice for Mastery You CAN complete as many as you choose to reach the learning targets		Evidence of Mastery You MUST complete and submit these for a grade.
Competency #3: The student creates, interprets, uses, and analyzes patterns of algebraic structures to make sense of problems. **Math 8 Performance Indicators:** 3a. Apply and extend previous understandings of arithmetic to algebraic expressions. 3b. Reason about and solve one-variable equations and inequalities. 3d. Use properties of operations to generate equivalent expressions. 3e. Solve real-life and mathematical problems using numerical and algebraic expressions and equations. **Coordinate Algebra Performance Indicators:** 3a. The student interprets the structure of expressions and writes expressions in equivalent forms to solve problems. 3b. The student performs arithmetic operations on polynomials, understands the relationship between zeros and factors of polynomials, uses polynomial problems and rewrites rational expressions. 3c. The student creates equations that describe numbers or relationships. 3d. The student understands, represents a and inequalities in one variable both algel graphically.	☐ I can identify the parts of an expression ☐ I can apply the properties of operations to write equivalent expressions ☐ I can identify and describe the properties of operations & properties of equalities ☐ I can justify my steps when solving an equation ☐ I can solve a multi-step equation in one variable ☐ I can translate a verbal statement to an algebraic statement	• Direct Instruction with the teacher • Small Group Instruction • Practice Sheets & Graphic Organizers • Equation Maze or Solve & Scan QR Code (in class) • Card Sorts- matching properties with examples • Green Workbook p 128-129 • Quizlet Deck for Algebraic Properties • Quizlet Deck for Properties of Equality • Quizlet Deck Practicing Distributive Property	Learning Videos/Websites You should be take notes and working problems in your Learning Log while you watch the videos. • Inverse Properties of Addition and Multiplication • Identity Properties of Addition and Multiplication • Understand what terms in expressions and equations represent • What makes expressions equivalent using properties • Video Collection on Solving Two Step and Multi Step Equations • Equations with variables on both sides • Linear Equations with one variable	• Assessment on Justifying Solutions with Properties -- Sept 8 • Assessment on Solving Multi-Step Equations- Sept 15

		• Quizlet Deck Matching Equivalent Expressions • Quizlet Deck Practice Evaluating Expressions • Quizlet Deck for Order of Operations • Practice Solving Equations • Coolmath Solving Equations Exercises • Practice test on Solving Multistep Equations • Practice Translating and Solving Equations • Practice test on Equations with Variables on Both sides • IXL-Solving Equations (FREE with limited daily access) • IXL- Create Equations with Infinitely Many or No Solutions (FREE with	• Analyzing the number of solutions to an equation • Video Collection for Translating Between Words and Math	

		limited daily access) • IXL- How many solutions (FREE with limited daily access) • Algebraic Translations • Algebraic representations • Practice with Algebraic translations		