Coordinate Algebra 8 **Name: _____**

Unit 1: Expressions, Equations, & Inequalities **October 4 – October 14**

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. *Dates subject to change*
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 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 ☐ I can solve an equation with coefficients represented by letters	• Direct Instruction with the teacher • Small Group Instruction • Practice Sheets & Graphic Organizers • Card Sorts • Error Analysis Activity • Green Workbook p • 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)	Learning Videos/Websites You should be take notes and working problems in your Learning Log while you watch the videos. **Translating Verbal to Algebraic Statements** • Video Collection for Translating Between Words and Math **Literal Equations** • How to Solve for a variable in terms of another • What is a Literal Equation? • Manipulating Formulas	• Assessment on Translating Verbal to Algebraic Statements 10/4 • Assessment on Literal Equations 10/12 • Odysseyware Unit 1 due 10/24

		• IXL- Create Equations with Infinitely Many or No Solutions (FREE with limited daily access) • IXL- How many solutions (FREE with limited daily access) • Algebraic Translations • Algebraic representations • Practice with Algebraic translations • CK-12 online textbook Take notes and try the Guided Practice while you complete the lesson • MathBits Review and Practice • ChiliMath Review and Practice • Review these examples for Literal Equations and Practice online		