Topic 1 - Solving Equations and Inequalities

First Day: Make sure kids can log onto envision and know how to access Easybridge & Canvas. Make sure they understand your class routine and expectations. If you want, to make sure they can access & use envision correctly, you can assign the Topic 1 Readiness Assessment #'s 2, 5, 8, 15-16. They should be able to answer those 5 questions easily from what they learned in 7/8th grade math. I also like to do a math activity - four 4's or a fun math problem solving activity.
*Suggested MathXL can be edited and shortened based on teacher preference...feel free to pick and choose which problems you may want to assign.

Section	Video Links	Suggested MathXL	Other Resources
1.1 **Learning Target:** I am learning to compute operations on real numbers **Success Criteria:** I can classify number sets; I can identify rational vs irrational numbers; I can simplify expressions using order of operations	What's an Irrational Number? https://www.youtube.com/watch?v=-QHff5pRdM8&t=2s What are the Types of Numbers? Real vs. Imaginary, Rational vs. Irrational	Assign 1-1 MathXL for School: Practice and Problem-Solving 1.1.#'s 12, 15-17, 19, 21-22, 24-27, 28 OR 1.1 HW worksheet (practice problems from old workbook)	1.1 Notes 1.1 Workbook Notes
1.4 **Learning Target:** I can rewrite and use literal equations to solve problems **Success Criteria:** I can isolate a variable; I can apply and alter formulas to help solve real world problems.	What is a Literal Equation? How Do You Solve a Formula For a Variable? Solving literal equations made easy	Assign 1-4 MathXL for School: Practice and Problem-Solving 1.4.#'s 9, 13-16, 20, 28-29 OR 1.4 HW worksheet (practice problems from the old workbook)	1.4 Notes
1.2 **Learning Target:** I can create and solve linear equations with one variable **Success Criteria:** I can apply order of operations when solving equations; I can identify and isolate a variable; I can translate math vocabulary into an equation.	How Do You Solve a Multi-Step Equation with Fractions by Multiplying Away the Fraction? How Do You Solve a Two-Step Equation? Solving a two step equation	Assign 1-2 MathXL for School: Practice and Problem-Solving 1.2.#'s 12, 16, 18-21, 23, 26-27, 29, 32-33, 43-44	1.2 Notes 1.2 Workbook Notes

1.3 **Learning Target:** I can write and solve equations with variables on both sides to solve problems. **Success Criteria:** I can identify different types of solutions to an equation; I can get all variables on the same side of the equation; I can use equations to solve real world problems.	How Do You Solve an Equation with Variables on Both Sides and Grouping Symbols? How Do You Solve a Word Problem Using an Equation With Variables on Both Sides?	Assign 1-3 MathXL for School: Practice and Problem-Solving 1.3. #'s 13, 16, 18, 23-24, 28, 31, 34-35, 40	1.3 Notes 1.3 Workbook Notes
1.2 & 1.3 Extra Practice & Quiz **Learning Target:** I can write and solve equations with variables on one or both sides of an equation. **Success Criteria:** I can identify different types of solutions to an equation; I can get all variables on the same side of the equation; I can use equations to solve real world problems.		Assign 1.3 Mixed Review #'s 1-7 & 1.3 Additional Practice #'s 4 & 6 before quiz for practice	Give 1.1-1.4 Quiz today
1.5 **Learning Target:** I can solve inequalities with one variable **Success Criteria:** I can identify inequality symbols; I can graph single inequalities on a number line; I can isolate a variable to solve an inequality	Solving Multi-Step Inequalities with Distributive Property How Do You Solve and Graph a Two-Step Inequality? How Do You Solve a Word Problem By Writing an Inequality? https://www.youtube.com/watch?v=nif2PKA9bXA&t=303s	Assign 1-5 MathXL for School: Practice and Problem-Solving 1.5.#'s 11, 13, 15-20, 23-26, 29, 33, 37, 40	1.5 Notes 1.5 Workbook Notes
1.6 **Learning Target:** I can solve and graph solutions to compound inequalities **Success Criteria:** I can identify inequality symbols; I can distinguish between AND and OR compound inequalities;	How Do You Solve an AND Compound Inequality and Graph It On a Number Line? How Do You Solve an OR Compound Inequality and Graph It On a Number Line? https://www.youtube.com/watc	Assign 1-6 MathXL for School: Practice and Problem-Solving 1.6.#'s 11, 14-17, 19-23, 27-28	1.6 Notes 1.6 Workbook Notes

I can graph compound inequalities on a number line	h?v=A3xPhzs-KBI&t=18s		
Topic 1 Review **Learning Target:** I can solve equations and inequalities. **Success Criteria:** I can isolate a variable; I can apply order of operations to expressions and equations; I can graph single & compound inequalities on a number line; I can solve single and compound inequalities		Assign Topic 1: Math XL for School: Topic Review #'s 1-2, 6-7, 12, 14, 16, 19, 21-24, 26-29	
Topic 1 Assessment **Learning Target:** I can solve equations and inequalities. **Success Criteria:** I can isolate a variable; I can apply order of operations to expressions and equations; I can graph single & compound inequalities on a number line; I can solve single and compound inequalities			