| Video Title | Grade Level | Domain (Topic) | Cluster | Standard |
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| Linear Equations: Expressions and Diagrams | 6th | The Number System | Apply and extend previous understandings of numbers to the system of rational numbers | **CCSS.MATH.CONTENT.6.NS.C.6 Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.** |
| | | | | **CCSS.MATH.CONTENT.6.NS.C.6.C Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.** |
| | 6th | Expressions and Equations | Apply and extend previous understandings of arithmetic to algebraic expressions. | **CCSS.MATH.CONTENT.6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.** |
| | | | | **CCSS.MATH.CONTENT.6.EE.A.2.C Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). For example, use the formulas V = s3 and A = 6 s2 to find the volume and surface area of a cube with sides of length s = 1/2.** |
| | 6th | Expressions and Equations | Reason about and solve one-variable equations and inequalities | **CCSS.MATH.CONTENT.6.EE.B.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.** |
| | 6th | Expressions and Equations | Reason about and solve one-variable equations and inequalities | **CCSS.MATH.CONTENT.6.EE.B.7 Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.** |