Video Title	Grade Level	Domain (Topic)	Cluster	Standard
Graphing Proportional Relationships	6th	Ratios and Proportional Relationships	Understand ratio concepts and use ratio reasoning to solve problems	CCSS.MATH.CONTENT.6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote candidate A received, candidate C received nearly three votes."
	6th	Proportional Relationships and use ratio reasoning to solve problems  Ratios and Understand  Relationships associated with a ratio a:b with b ≠ 0, and use ratio relationship. For example, "This recipe has a cups of sugar, so there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar. So there is 3/4 cup of flour for each for 15 hamburgers, which is a rate of \$5 per ham cups of sugar.	CCSS.MATH.CONTENT.6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b $\neq$ 0, and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is 3/4 cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."	
	6th	Ratios and Proportional Relationships		CCSS.MATH.CONTENT.6.RP.A.3 Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
				CCSS.MATH.CONTENT.6.RP.A.3.A Make tables of equivalent ratios relating quantities with wholenumber measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.
				CCSS.MATH.CONTENT.6.RP.A.3.B Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?
	6th	Expressions and Equations	Represent and analyze quantitative relationships between dependent and independent variables	CCSS.MATH.CONTENT.6.EE.C.9 Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation d = 65t to represent the relationship between distance and time
	7th	Ratios and Proportional	Analyze proportional	CCSS.MATH.CONTENT.7.RP.A.2 Recognize and represent proportional relationships between quantities.
		Relationships	relationships and use them to solve real-	CCSS.MATH.CONTENT.7.RP.A.2.B Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.
			world and mathematical problems	CCSS.MATH.CONTENT.7.RP.A.2.D Explain what a point $(x, y)$ on the graph of a proportional relationship means in terms of the situation, with special attention to the points $(0, 0)$ and $(1, r)$ where r is the unit rate.

8th	and Equations	the connections between	CCSS.MATH.CONTENT.8.EE.B.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.
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