

Unit 3: Linear Relationships			
<a href="#">Open Up Family Resource Link</a>			
Lesson	Skill	Online Resources	Standard
1	Graph a proportional relationship from a story.	<a href="https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/comparing-proportional-relationships-exercise">https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/comparing-proportional-relationships-exercise</a>  <a href="https://www.ixl.com/math/grade-8/graph-proportional-relationships-l">https://www.ixl.com/math/grade-8/graph-proportional-relationships-l</a>	8.EE.B
2	Graph a proportional relationship from an equation.  Tell when two graphs are of the same proportional relationship even if the scales are different.	<a href="https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/graphing-proportional-relationships-example-3">https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/cc-8th-graphing-prop-rel/v/graphing-proportional-relationships-example-3</a>  <a href="https://learnzillion.com/lesson_plans/8859-understand-proportional-relationships-by-relating-graphs-and-equations/">https://learnzillion.com/lesson_plans/8859-understand-proportional-relationships-by-relating-graphs-and-equations/</a>	8.EE.B, 8.EE.B.5
3	Scale and label a coordinate axes in order to graph a proportional relationship.	<a href="https://learnzillion.com/lesson_plans/8504-choose-appropriate-scales-for-graphs/">https://learnzillion.com/lesson_plans/8504-choose-appropriate-scales-for-graphs/</a>  <a href="https://www.youtube.com/watch?v=aoSsbXKX-qE">https://www.youtube.com/watch?v=aoSsbXKX-qE</a>	8.EE.B, 8.EE.B.5
4	Compare proportional relationships represented in different ways.	<a href="https://www.youtube.com/watch?v=b-w0S0EBsfQ">https://www.youtube.com/watch?v=b-w0S0EBsfQ</a>  <a href="https://learnzillion.com/lesson_plans/1056-compare-proportional-relationships-by-analyzing-graphs-tables-equations-and-verbal-descriptions/">https://learnzillion.com/lesson_plans/1056-compare-proportional-relationships-by-analyzing-graphs-tables-equations-and-verbal-descriptions/</a>	8.EE.B, 8.EE.B.5
5	Find the rate of change of a linear relationship by figuring out the slope of the line representing the relationship.	<a href="https://learnzillion.com/lesson_plans/8062-find-a-unit-rate-using-a-graph/">https://learnzillion.com/lesson_plans/8062-find-a-unit-rate-using-a-graph/</a>  <a href="https://www.montereyinstitute.org/courses/Algebra1/COURSE_TEXT_RESOURCE/U04_L1_T1_text_final.html">https://www.montereyinstitute.org/courses/Algebra1/COURSE_TEXT_RESOURCE/U04_L1_T1_text_final.html</a>  <a href="https://www.youtube.com/watch?v=7t2SLKMDKRI">https://www.youtube.com/watch?v=7t2SLKMDKRI</a>	8.EE.B
6	Interpret the vertical intercept of a graph of a real-world situation.  Match graphs to the	<a href="https://www.youtube.com/watch?v=BfRvPgAfqvY">https://www.youtube.com/watch?v=BfRvPgAfqvY</a>  <a href="https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-dependent-independent/e/match-">https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-dependent-independent/e/match-</a>	8.EE.B, 8.EE.B.5

	real-world situations they represent by identifying the slope and the vertical intercept.	<a href="#">equations-to-coordinates-on-a-line</a>	
7	Use patterns to write a linear equation to represent a situation.	<a href="https://www.youtube.com/watch?v=NBAcwrD7KaU">https://www.youtube.com/watch?v=NBAcwrD7KaU</a> <a href="https://www.youtube.com/watch?v=2W557jRu1IE">https://www.youtube.com/watch?v=2W557jRu1IE</a>	8.EE.B, 8.EE.B.6
8	Write equations of lines using $y=mx+b$ . Explain where to find the slope and vertical intercept in both an equation and its graph.	<a href="https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/write-slope-intercept-equations/v/graphs-using-slope-intercept-form">https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/write-slope-intercept-equations/v/graphs-using-slope-intercept-form</a> <a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/slope-and-rate-of-change">https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/slope-and-rate-of-change</a> <a href="https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/write-slope-intercept-equations/v/equation-of-a-line-1">https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-linear-equations-functions/write-slope-intercept-equations/v/equation-of-a-line-1</a> <a href="https://www.ixl.com/math/grade-8/graph-a-line-using-slope">https://www.ixl.com/math/grade-8/graph-a-line-using-slope</a> <a href="https://www.ixl.com/math/grade-8/graph-a-line-from-an-equation-in-slope-intercept-form">https://www.ixl.com/math/grade-8/graph-a-line-from-an-equation-in-slope-intercept-form</a>	8.EE.B, 8.G.A.1
9	Tell if a slope is positive or negative by looking at a graph.	<a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/positive-and-negative-slope">https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/positive-and-negative-slope</a> <a href="http://www.sparknotes.com/math/algebra1/graphingequations/section4/">http://www.sparknotes.com/math/algebra1/graphingequations/section4/</a>	8.EE.B
10	Calculate positive and negative slopes given two points on the line.	<a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/slope-of-a-line-2">https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/v/slope-of-a-line-2</a> <a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/e/slope-from-two-points">https://www.khanacademy.org/math/algebra/two-var-linear-equations/slope/e/slope-from-two-points</a> <a href="https://www.ixl.com/math/grade-8/find-the-slope-from-two-points">https://www.ixl.com/math/grade-8/find-the-slope-from-two-points</a>	8.EE.B, 8.EE.B.6
11	Write equations for lines that have a positive or a negative slope. Write equations for vertical and horizontal lines.	<a href="https://www.ixl.com/math/grade-8/write-a-linear-equation-from-two-points">https://www.ixl.com/math/grade-8/write-a-linear-equation-from-two-points</a> <a href="https://www.ixl.com/math/grade-8/write-a-linear-equation-from-a-graph">https://www.ixl.com/math/grade-8/write-a-linear-equation-from-a-graph</a> <a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/v/slope-of-a-line-3">https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/v/slope-of-a-line-3</a> <a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/v/examples-of-slopes-and-equations-of-horizontal-and-vertical-lines">https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/v/examples-of-slopes-and-equations-of-horizontal-and-vertical-lines</a> <a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/e/horizontal-and-vertical-lines">https://www.khanacademy.org/math/algebra/two-var-linear-equations/hor-and-ver-lines-alg1/e/horizontal-and-vertical-lines</a>	8.EE.B, 8.EE.B.6

12	<p>Understand what the solution to an equation in two variables is.</p> <p>Know that the graph of an equation is a visual representation of all the solutions to the equation.</p>	<p><a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/2-variable-linear-equations-graphs">https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/2-variable-linear-equations-graphs</a></p>	<p>8.EE.B, 8.EE.C</p>
13	<p>Find solutions (x,y) to linear equations given either the x- or the y-value to start from.</p>	<p><a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/checking-ordered-pair-solutions-to-equations-2">https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/checking-ordered-pair-solutions-to-equations-2</a></p> <p><a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/e/plugging_in_values">https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/e/plugging_in_values</a></p> <p><a href="https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/graphing-solutions-to-2-variable-linear-equations-1">https://www.khanacademy.org/math/algebra/two-var-linear-equations/solutions-to-two-var-linear-equations/v/graphing-solutions-to-2-variable-linear-equations-1</a></p>	<p>8.EE.C, 8.EE.C.8.a</p>