

# PLAYLIST EXAMPLE #1

**School, grade, teacher:** KIPP Heartwood, 6<sup>th</sup> grade, Anna Gunderson

**Timeframe:** Students worked at their own pace through this playlist during their Fractions unit

**Other details:** Anna used data from her coach reports to focus on struggling students and encouraged peer tutoring

Do you have what it takes to become a

## FRACTION NINJA???

Become proficient on the following modules:

### FRACTION UNDERSTANDINGS

Module	Date Proficient
Recognizing Fractions	
Equivalent Fractions	
Equivalent Fractions 2	
Simplifying Fractions	
Comparing Fractions 1	
Comparing Fractions 2	
Converting Mixed Numbers and Improper Fractions	
Ordering Fractions	



### FRACTION OPERATIONS



Module	Date Proficient
Adding Fractions with Common Denominators	
Subtracting Fractions with Common Denominators	
Adding Fractions	
Subtracting Fractions	
Adding and Subtracting Fractions	
Fraction Word Problems 1	
Adding and Subtracting Mixed Numbers	
Multiplying Fractions	
Dividing Fractions	

# PLAYLIST EXAMPLE #2

**School, grade, teacher:** Summit High School, 9<sup>th</sup> grade, Zack Miller

**Timeframe:** Students work at their own pace within a week and are expected to hit target deadlines for their work on Khan Academy, projects, and activities. They can also work ahead.

**Other details:** Mr. Miller uses data to host seminars for specific groups of students each week. He intentionally integrates hands-on projects and group work alongside Khan Academy.

Checklist 2: November 21 to December 1

Name: \_\_\_\_\_

## GOAL

Students will be able to work interchangeably between the different representations of linear relationships: verbal/visual description, data table, graph and algebraic rule.

### SHOULD BE COMPLETE ALREADY

#### Last Week's Khans:

- Functions 1
- Interpreting Linear Equations
- Distributive Property with Variables
- Graphing Points
- Graphing Points 2

#### Older Khans:

- Distance Formula
- Midpoint Formula
- Pythagorean Theorem 1
- Triangle Inequality Theorem
- Geometry 1
- Simplifying Radicals

### DUE MONDAY, NOVEMBER 28<sup>th</sup>

#### Slope Project:

Instructions: Find some stairs. Calculate their slope. Describe how you did it. Take a picture. I'm looking for stairs with the steepest and shallowest slope.

### DUE BY WEDNESDAY, NOVEMBER 30<sup>th</sup>

#### Linear Relationships Project 1: "Thrifty Math Teachers"

Paper copy of this project should be turned in to Mr. Miller on or before due date.

### KHAN DUE BY TUESDAY, NOVEMBER 29<sup>th</sup>

- Slope of a Line
- Line Graph Intuition
- Equation of a Line
- Solving for the y-intercept
- Graphing Linear Equations
- Converting Between Slope-Intercept and Standard Form
- AT LEAST 2 NEW VIDEOS

### DUE BY THURSDAY, DECEMBER 1<sup>st</sup>

#### Linear Relationships Project 2: Microsoft Excel Activity

This project sent via e-mail. When completed, should be returned to Mr. Miller via e-mail as an attachment.

### UPCOMING KHAN

- Graphing Inequalities 1
- Graphing Inequalities 2
- Line Relationships
- Graphing Systems of Equations
- Systems of Equations

Concept Assessments on  
**Friday, December 2<sup>nd</sup>**  
(and always during Office Hours  
every Wed, Thurs & Fri)

# PLAYLIST EXAMPLE #3

**School, grade, teacher:** Oakland Unity High School, 9<sup>th</sup> grade, Peter McIntosh & Kallie Berg

**Timeframe:** Students move at their own pace within a given week and can also work ahead.

**Other details:** OU used this list during their summer school. Students completed work at school and at home, and teachers used data to give mini-lessons during the school day. If students completed all skills by Thursday, they didn't have to come to school on Friday.

<p><b><u>Week 1:</u></b>            Addition 1            Addition 2            Subtraction 1            Subtraction 2            Number line 1, 2, 3            Ordering negative numbers            Adding negative numbers            Adding and subtracting negative numbers            Multiplication .5            Multiplication 1            Division .5            Division 1            Multiplying and dividing negative numbers            Simplifying fractions            Comparing fractions 1            Comparing fractions 2            Ordering fractions            Negative number word problems            Arithmetic word problems 1</p>	<p><b><u>Week 2:</u></b>            Multiplying fractions 0.5            Multiplying fractions            Dividing fractions 0.5            Dividing fractions            Adding fractions with common denominators            Subtracting fractions with common denominators            Adding fractions            Subtracting fractions            Comparing improper fractions &amp; mixed #'s            Ordering improper fractions &amp; mixed #'s            Arithmetic word problems 2            Percent word problems 1            Discount tax &amp; tip word problems</p>
<p><b><u>Week 3:</u></b>            Decimals on the number line 1            Decimals on the number line 2            Understanding moving the decimals            Understanding decimal place value            Adding decimals            Adding decimals 2            Subtracting decimals            Multiplying decimals            Dividing decimals 1            Dividing decimals 2            Rounding whole numbers            Converting decimals to percent            Converting percent to decimals            Converting decimals to fractions 1 (not 2)            Add/subtract mixed #'s 0.5</p>	<p><b><u>Week 4:</u></b>            Converting mixed numbers            Adding and subtracting mixed numbers            Percent word problems 2            Markup and commission word problems            Average word problems</p>

# PLAYLIST EXAMPLE #4

**School, course, teacher:** Lee University, Intermediate Algebra, Jennifer Cornett

**Timeframe:** Students move at their own pace within a given week and can also work ahead.

## Intermediate Algebra Course for 15-week semester

(3x week/50 minutes)

Lee University

Jennifer Cornett

	Day	Class Topics	Khan Academy Videos	Khan Academy Exercises
week 1	Monday	Review Operations with Integers	<a href="#">Adding/Subtracting Negative Numbers</a> <a href="#">Multiplying and Dividing Negative Numbers</a>	<a href="#">Adding and subtracting negative numbers</a> <a href="#">Multiplying and dividing negative numbers</a>
	Wednesday	Evaluating Expressions	<a href="#">Evaluating expressions with 2 variables</a> <a href="#">Expressions with two variables</a>	<a href="#">Evaluating expressions with 2 variables</a> <a href="#">Evaluating expressions with one variable</a>
	Friday	Linear Equations w/ 1 variable	<a href="#">Solving Two-Step Equations</a> <a href="#">Variable on both sides</a>	<a href="#">2-step equations</a> <a href="#">Equations with variables on both sides</a>
week 2	Monday	Percents, Ratios & Proportions	<a href="#">Represent number as decimal/Fraction/%</a> <a href="#">Writing Proportions</a>	<a href="#">Percentage Word Problems 1</a> <a href="#">Writing Proportions</a>
	Wednesday	Scientific & Business Applications	<a href="#">Mixture Problem 2</a> <a href="#">Multistep word problems example 3)</a>	<a href="#">Multistep equations without variables</a> <a href="#">Discount tax and tip word problems</a>
	Friday	Coordinate Plane/Graphing	<a href="#">The Coordinate Plane</a> <a href="#">Quadrants of Coordinate Plane</a>	<a href="#">Points on the coordinate plane</a> <a href="#">Graphing Points</a>
week 3	Monday	Graphing Linear Equations	<a href="#">Plotting (x, y) relationships</a> <a href="#">Interpreting Linear Graphs</a>	<a href="#">Equations from table</a> <a href="#">Identifying Linear relationships</a>
	Wednesday	Slope of a Line	<a href="#">Slope of a Line</a> <a href="#">Slope and Y-intercept Intuition</a>	<a href="#">Identifying Slope of a Line</a> <a href="#">Line Graph Intuition</a>
	Friday	Writing and Graphing Equations of a Line	<a href="#">Linear Equations in Slope Intercept Form</a> <a href="#">Linear Equations in Point Slope Form</a>	<a href="#">Slope Intercept Form</a> <a href="#">Point Slope Form</a>
week 4	Monday	Graphing Linear Inequalities	<a href="#">Graphing Inequalities</a> <a href="#">Graphing Linear Inequalities 2 Variables</a>	<a href="#">Graphing &amp; Solving Linear Inequalities</a> <a href="#">Graphing Linear inequalities</a>
	Wednesday	Applications: Linear Equations	<a href="#">Basic Linear Word Problems</a> <a href="#">Age Word Problem 3</a>	<a href="#">Linear Equation Word Problems</a> <a href="#">Age Word Problems</a>
	Friday	Catch up and/or Review day		