

Functions, Expressions, & Equations: Linear Functions



8 Common Core
Term 1 Unit 3

8.F.B.4

8.EE.B.5

8.EE.B.6

Ms. Tully

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8.F.B.4

8.EE.B.5

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8.F.B.4

Use Functions to Model Relationships Between Quantities

Compare distance-time graphs with distance-time equations

Construct Linear Functions from Tables

Interpret Direction

Construct Linear Functions from a Graph

Determining the Constant Rate of Change

Interpret Linear Relationships in Word Problems

Determining the y-Intercept

Construct a Linear Function

Determine Rate of Change in Linear Relationships

Create Equation, Table, and Graph from a Situation

Interpreting Slope and y-intercept in Context

Determine Initial Value in a Linear Relationship

Define and Interpret Linear Relationships in Tables

Define a Linear Function

Construct a Function by Solving for Unknown Information

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8.EE.B.5

Understand the Connections Between Proportional Relationships, Lines, and Linear Equations

[Display All Possibilities in a Proportional Relationship by Graphing](#)

[Find a Unit Rate Using a Graph](#)

[Find a Fractional Unit Rate Using a Graph](#)

[Understand Proportional Relationships by Relating Graphs and Equations](#)

[Compare Proportional Relationships](#)

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8.EE.B.6

Make Lines from Right Triangles

Find Coordinates of Points
on a Straight Line

Describe a Line
with a Unique Slope

Find the Slope of a Line
on the Coordinate Plane

Describe
Positive and Negative Slopes

Derive $y=mx$
Using Similar Triangles

Derive $y=mx+b$
Using Similar Triangles

KHAN Academy Video Lessons

For

Equation Review

8.F.B.4

8.F.B.5

8.EE.B.6

Equation Review

8.F.B.4

Use Functions to Model Relationships Between Quantities

8.EE.B.5

Understand the Connections Between
Proportional Relationships, Lines, and Linear Equations

8.EE.B.6

Understand the Connections Between
Proportional Relationships, Lines, and Linear Equations

KHAN Academy Video Lessons For Equation Review

<u>Simple Equations of the Form $ax=b$</u>	<u>Basic Algebraic Logic</u>
<u>Solving One-Step Equations</u>	<u>Why We Do the Same Thing to Both Sides</u> <u>Two-Step Equations</u>
<u>Solving One-Step Equations -2</u>	<u>Equations 2</u>
<u>Simple Equations: Examples Solving a Variety of Forms</u>	<u>Two-Step Equations</u>

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[Find Slope of a Line](#)

[Slope and y-intercept
Intuition](#)

[Find Slope of a Line 2](#)

[Graphical Slope of a Line](#)

[Slope of a Line 3](#)

[Slope and Rate of Change](#)

[Slope Example](#)

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[Comparing Proportional Relationships
Exercise 2](#)

[Representing and Comparing Rates](#)

[Graphing Proportional Relationships
Example](#)

[Graphing Proportional Relationships-
Example 2](#)

[Graphing Proportional Relationships-
Example 3](#)

KHAN Academy Video Lessons For 8.EE.B.6

[Similar Triangles to Prove that the Slope is Constant for a Line](#)

[Slope and Triangle Similarity 1](#)

[Slope and Triangle Similarity 2](#)

[Slope and Triangle Similarity 3](#)

[Slope and Triangle Similarity 4](#)

KHAN Academy Practice

Equation Review:
One-Step Equations with
Multiplication

8.F.B.4
Graphing Linear Equations

Equation Review:
One-Step Equations

8.EE.B.5
Rates and Proportional
Relationships

Equation Review:
Two-Step Equations

8.EE.B.5
Graphing Proportional Relationships

8.F.B.4
Identifying Slope of a Line

8.EE.B.6
Slope and Triangle Similarity

8.F.B.4
Line Graph Intuition

Miscellaneous Video Lessons

[Direct Variation
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[Inverse Variation
by Shmoop](#)

[Direct Variation and Inverse Variation](#)

[Slope-Intercept Form
By Shmoop](#)

[Linear Equations in Point-Slope Form
by Shmoop](#)

[Slope
by Shmoop](#)

[Art of Problem Solving:
Slope-Intercept Form](#)

[Art of Problem Solving:
Introducing Slope](#)

[Art of Problem Solving:
Point-Slope Form](#)

[Math Dude:
\(Unit 3-2\)
Slope and Direct Variation](#)

[MathDude:
\(Unit 3-1\)
Slope of a Line](#)

[MathDude:
\(Unit 3-1-3\)
Slope-Intercept Form](#)

IXL Practice

8.F.B.4

Use Functions to Model Relationships Between Quantities

8.EE.B.5

Understand the Connections Between Proportional Relationships, Lines, and Linear Equations

8.EE.B.6

Understand the Connections Between Proportional Relationships, Lines, and Linear Equations

IXL Practice

8.F.B.4

Rate of Change

Proportional Relationships:
Word Problems

Constant Rate of Change

Write a Rule for a
Function Table

Find the Constant of Variation:
Graphs

Linear Function Word Problems

Find the Constant of Variation:
Word Problems

Find the Slope of a Graph

Write an Equation for a
Proportional Relationship

Find Slope from Two Points

IXL Practice

8.EE.B.5

Unit Rates

Do the Ratios Form a Proportion?

Do the Ratios Form a Proportion:
Word Problems?

Solve Proportions

Solve Proportions:
Word Problems

Find the Constant of Variation:
Graphs

Graph a
Proportional Relationship

Proportional Relationships:
Word Problems

IXL Practice

8.EE.B.6

[Write an Equation for a Proportional Relationship](#)

[Find Slope from Two Points](#)

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[Find Slope from an Equation](#)

[Find the Slope of a Graph](#)

[Graph a Line Using Slope](#)

Miscellaneous Practice

[Word Problems on One Line](#)

[Writing Equations of Lines](#)

[Matching Lines with Equations](#)

[Linear Functions as Models](#)

[Graphing a Linear Function
Given a Point and Its Slope](#)

[Graphing Linear Equations](#)

[Slope Point Word Problem](#)

[Finding the Equations of Lines
in Standard Form](#)

[Point-Slope Form](#)

[Graphing Lines Given Slope
and Y-Intercept](#)

[Slope and y-intercept](#)

Interactive Games

[Ship Blaster:
Linear Function Game](#)

[Rags to Riches:
Parallel & Perpendicular Lines](#)

[Planet Hop](#)

[Line Gem 1](#)

[Hoop Shoot:
Slope-Intercept Game](#)

[Algebra vs. The Cockroaches](#)

Songs and Videos

[The Slope Song](#)

[Slope "Official Video"](#)

[Graph!](#)
[\(WSHS Math Rap Song\)](#)

[Slope Intercept Rap](#)

[\$Y=MX+B\$](#)

[Real Life Applications of Slope](#)

[Real Life Math -](#)
[Snowboarding on Slopes - Algebra](#)

[Slope of the Line](#)

[Colin Dodds - Slope](#)
[\(Math Song\)](#)

[Minor Notes - Slopes](#)

[Rise Up Run Out](#)

[Graph Shop-](#)
[Graphing Lines Thrift Shop Parody](#)

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[Intro to Slope](#)

[Slope](#)