



Functions: Input – Output Relationships

8 Common Core Term 1 Unit 2

8.F.A.1

8.F.A.2

8.F.A.3

8.F.A.5

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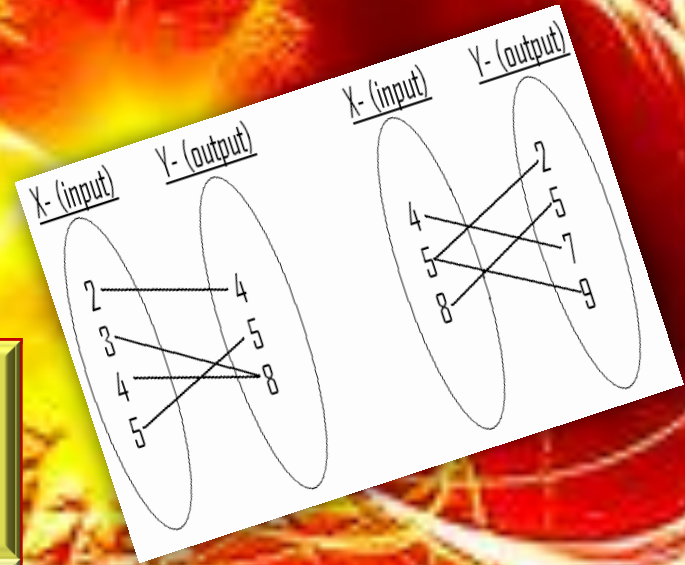
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8.F.A.1

Identify a Function

Identify Function Properties

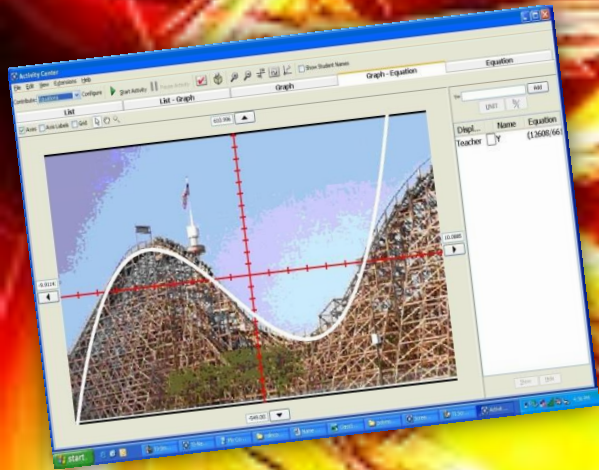
Identify a Function
From a Graph



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8.F.A.2



Compare Two Functions By Analyzing an Equation and a Graph

Compare Two Functions By Analyzing an Equation and a Table

Compare Two Functions By Analyzing an Equation and a Verbal Description

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8.F.A.3

Analyze Graphs and Tables of
 $y = mx + b$

Analyze Graphs of
 $y = x$ and $y = mx$

Analyze Tables of
 $y = x$ and $y = mx$

Define a Linear Function

Describe the Rate of Change
of a Linear Function

Identify a Linear Function by
Analyzing Characteristics
of a Linear Function

Locating and Describing the
 y -intercept of a Linear
Function

Recognize the Characteristics
of a Linear Function

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8.F.A.5

Describe Function Relationships Using Graphs

Sketch Graphs by Interpreting Situations

Compare Two Linear Relations

Explain Intercepts Using Graphs

Describe the Rate of Change on an Interval Using a Graph

Sketch a Graph of a Linear Relation Given the Function Behavior

Describe Rate of Change Using Graphs

Describe the Rate of Change of Linear and Non-linear Functions

Create a Verbal Description of a Linear Relation Given a Graph or Equation

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Function Notation

What is a Function?

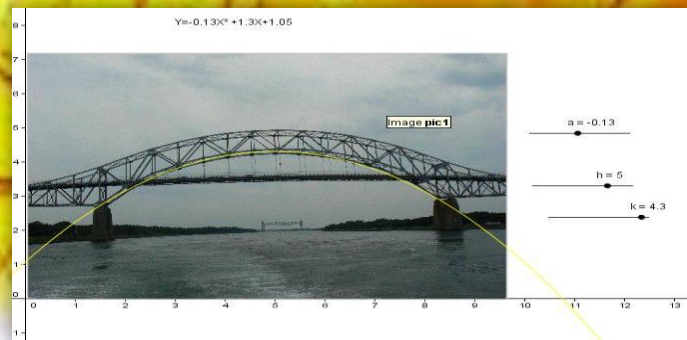
Understanding Function Notation (Example 1)

Difference Between Equations and Functions

Understanding Function Notation Example 2

Evaluating With Function Notation

Understanding Function Notation Example 3



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Recognizing Functions

8.F.A.1

<u>Testing If a Relationship is a Function</u>	<u>Recognizing Functions Example 2</u>
<u>Relations and Functions</u>	<u>Recognizing Functions Example 3</u>
<u>Graphical Relations and Functions</u>	<u>Recognizing Functions Example 4</u>
<u>Functional Relationships 1</u>	<u>Recognizing Functions Example 5</u>
<u>Recognizing Functions Example 1</u>	<u>Functions as Graphs</u>

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Analyzing Linear Functions

8.F.A.2 and 8.F.A.5

[Ordered Pair Solutions of Equations](#)

[Interpreting Linear Functions Example](#)

[Constructing a Linear Function Word Problem](#)

[Ordered Pair Solutions of Equations 2](#)

[Interpreting Linear Functions Example 2](#)

[Constructing and Interpreting a Linear Function](#)

[Comparing Linear Functions 1](#)

[Comparing Linear Functions Applications 1](#)

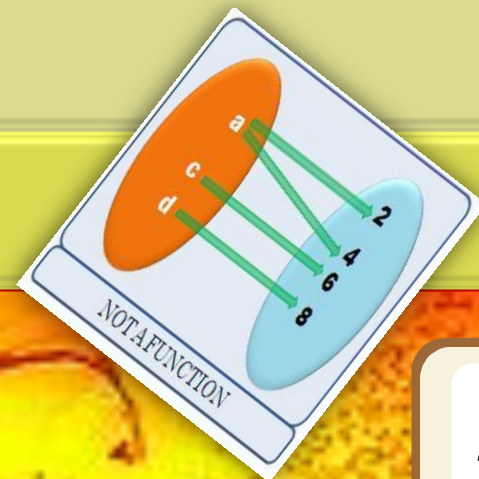
[Constructing Linear Graphs](#)

[Comparing Linear Functions 2](#)

[Comparing Linear Functions Applications 2](#)

[Comparing Linear Functions 3](#)

[Comparing Linear Functions Applications 3](#)



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Linear and Nonlinear Functions

8.F.A.3

[Recognizing Linear Functions](#)

[Linear and Nonlinear Functions](#)
[Example 1](#)

[Linear and Nonlinear Functions](#)
[Example 2](#)

[Linear and Nonlinear Functions](#)
[Example 3](#)



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[Video 1](#)

[Graphing Linear Equations](#)
[Video 2](#)

[Re-writing Linear Equations](#)
[Video 3](#)



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[Math Dude:
Slope and Direct Variation](#)

[Function vs Relation
\(first 15 minutes\)](#)

[Math Dude:
Properties of Functions
\(Unit 2.3\)](#)

[Shmoop:
Function Rules,
Tables and Graphs -
Slope-Intercept Form](#)

[Math Dude: Properties of
Functions
\(Unit 7.4\)](#)

[Interpreting Graphs of
Functions
8.F.A.5](#)

[Relations and Functions:
Vertical Line Test](#)

[Math Dude:
Relations -
Mapping & Tables](#)

[What is a Function?](#)

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Practice: IXL

Complete a
Function Table

Identify Linear
and Nonlinear
Functions

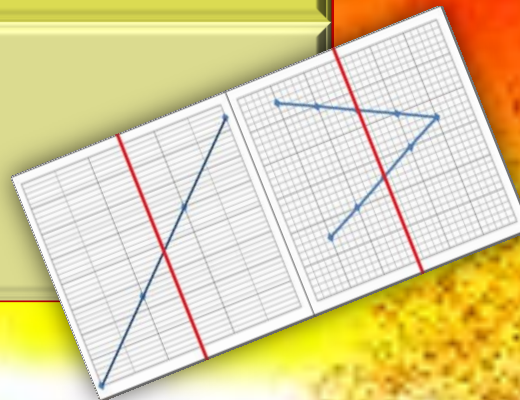
Find Points on a
Function Graph

Linear Function
Word Problems

Graph a Line
From a Function
Table

Write a Rule For a
Function Table

Graph a Line From
an Equation



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Practice: KHAN Academy

Views of a
Function

Ordered Pair
Solutions to
Linear Equations

Constructing and
Interpreting a
Linear Function

Understanding
Function Notation

Comparing Linear
Functions

Linear and
Nonlinear
Functions

Recognizing
Functions

Interpreting
Linear Functions

Interpreting a
Graph Exercise
Example

Recognizing
Functions 2

Comparing Linear
Functions
Applications

Interpreting
Graphs of Linear
and Nonlinear
Functions

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[Identifying Sets, Relations,
and Functions](#)

[Using Graphs to Determine
Whether a Relation Is a
Function](#)

[Creating Tables for Linear
Functions](#)



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Cypress Ridge High School](#)

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and Range Song](#)

[FUNction Table Song](#)

["A Function" Rap
Typography](#)

[The Function Song](#)



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