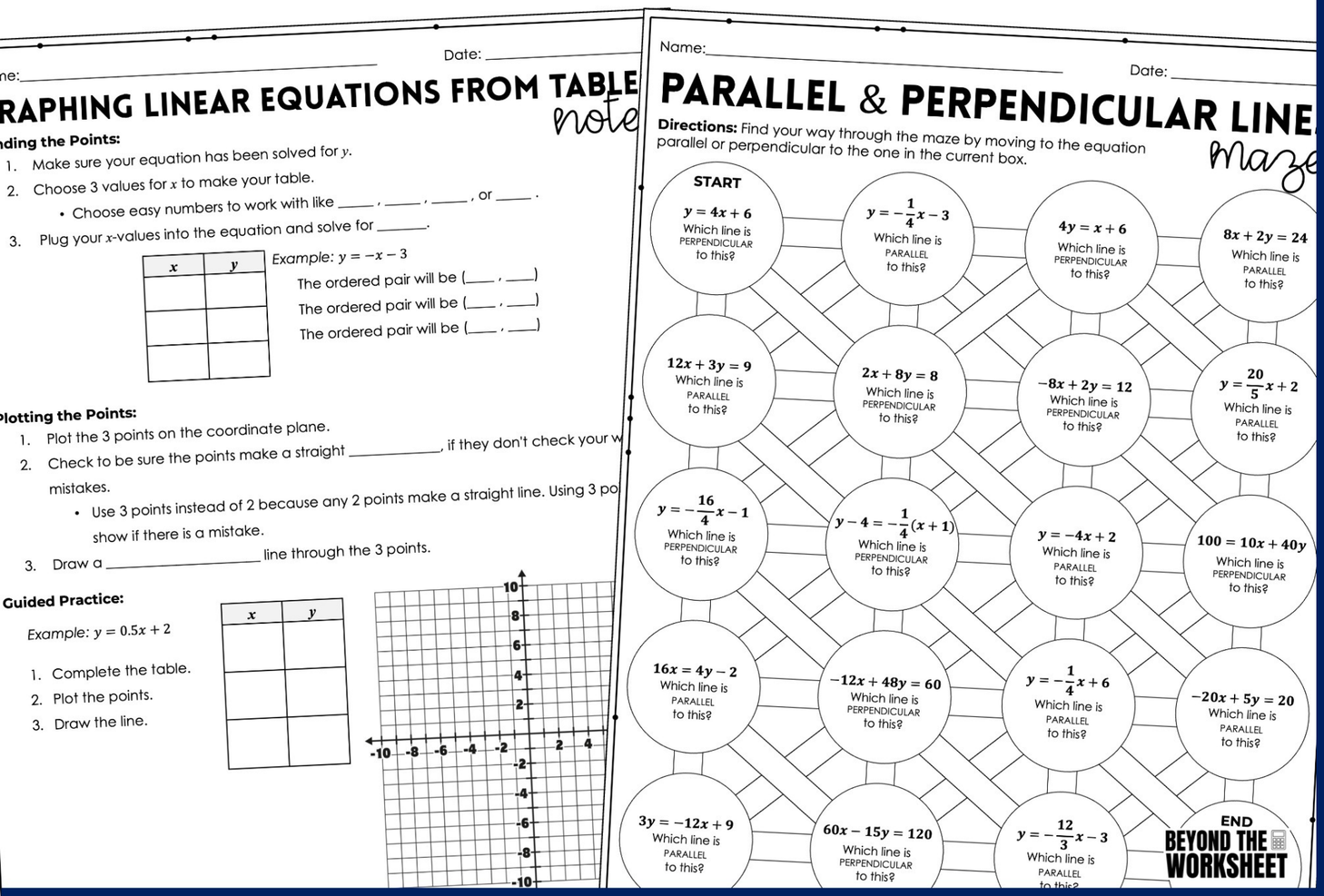
ALGEBRA 1 CURRICULUM – UNIT 3

LINEAR FUNCTIONS & RELATIONSHIPS


Date:

RAPHING LINEAR EQUATIONS FROM TABLE

note

ding the Points:

1. Make sure your equation has been solved for y.
2. Choose 3 values for x to make your table.
   - Choose easy numbers to work with like ____ , ____ , ____ , or ____ .
3. Plug your x-values into the equation and solve for ____.

x	y

Example: $y = -x - 3$

The ordered pair will be (____ , ____)

The ordered pair will be (____ , ____)

The ordered pair will be (____ , ____)

lotting the Points:

1. Plot the 3 points on the coordinate plane.
2. Check to be sure the points make a straight _____, if they don't check your w
   mistakes.
   - Use 3 points instead of 2 because any 2 points make a straight line. Using 3 po
     show if there is a mistake.
3. Draw a _____ line through the 3 points.

Guided Practice:

Example: $y = 0.5x + 2$

x	y

1. Complete the table.
2. Plot the points.
3. Draw the line.

Name:

Date:

PARALLEL & PERPENDICULAR LINE

maze

Directions: Find your way through the maze by moving to the equation parallel or perpendicular to the one in the current box.

START

$y = 4x + 6$ Which line is PERPENDICULAR to this?

$y = -\frac{1}{4}x - 3$ Which line is PARALLEL to this?

$4y = x + 6$ Which line is PERPENDICULAR to this?

$8x + 2y = 24$ Which line is PARALLEL to this?

$12x + 3y = 9$ Which line is PARALLEL to this?

$2x + 8y = 8$ Which line is PERPENDICULAR to this?

$-8x + 2y = 12$ Which line is PERPENDICULAR to this?

$y = \frac{20}{5}x + 2$ Which line is PARALLEL to this?

$y = -\frac{16}{4}x - 1$ Which line is PERPENDICULAR to this?

$y - 4 = -\frac{1}{4}(x + 1)$ Which line is PERPENDICULAR to this?

$y = -4x + 2$ Which line is PARALLEL to this?

$100 = 10x + 40y$ Which line is PERPENDICULAR to this?

$16x = 4y - 2$ Which line is PARALLEL to this?

$-12x + 48y = 60$ Which line is PERPENDICULAR to this?

$y = -\frac{1}{4}x + 6$ Which line is PARALLEL to this?

$-20x + 5y = 20$ Which line is PARALLEL to this?

$3y = -12x + 9$ Which line is PARALLEL to this?

$60x - 15y = 120$ Which line is PERPENDICULAR to this?

$y = -\frac{12}{3}x - 3$ Which line is PARALLEL to this?

END

BEYOND THE WORKSHEET

GUIDED NOTES, PRACTICE, ACTIVITIES, ASSESSMENTS AND MORE!

Help students develop a deep understanding of **linear functions and relationships** with this comprehensive unit. Students begin by identifying and evaluating functions before exploring slope, graphing linear equations using multiple methods, writing equations in different forms, parallel and perpendicular lines, real-world linear applications, and scatter plots with lines of best fit.

learn more!

WARM-UPS & EXIT TICKETS

- Structured and spiraled daily warm-up exercises and exercises keep students engaged and focused.

Name:
Date:

warm up

Lesson 8: Scatter Plots and Line of Best Fit

Skill: Creating Scatter Plots

Directions: Create a scatter plot for the relationships represented in each table.

1) Items Sold and Earnings

Items	$
2	12
4	30
2	15
6	30
8	50
12	70
8	40

2) Outside Temperature and Ice Cream Sales (units sold)

Temp °F	# Sold
70	85
80	90
60	70
50	70
40	50
80	80
75	75

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Name:
Date:

exit ticket

Lesson 2: Calculating Slope

Skill: Finding Slope from Graphs

1) Find the slope of the line. Express the slope as a fraction in simplest form.

2) Find the slope of the line. Express the slope as a fraction in simplest form.

3) Find the slope of the line. Express the slope as a fraction in simplest form.

4) Find the slope of the line. Express the slope as a fraction in simplest form.

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ame:
te:

warm up

Lesson 8: Scatter Plots and Line of Best Fit

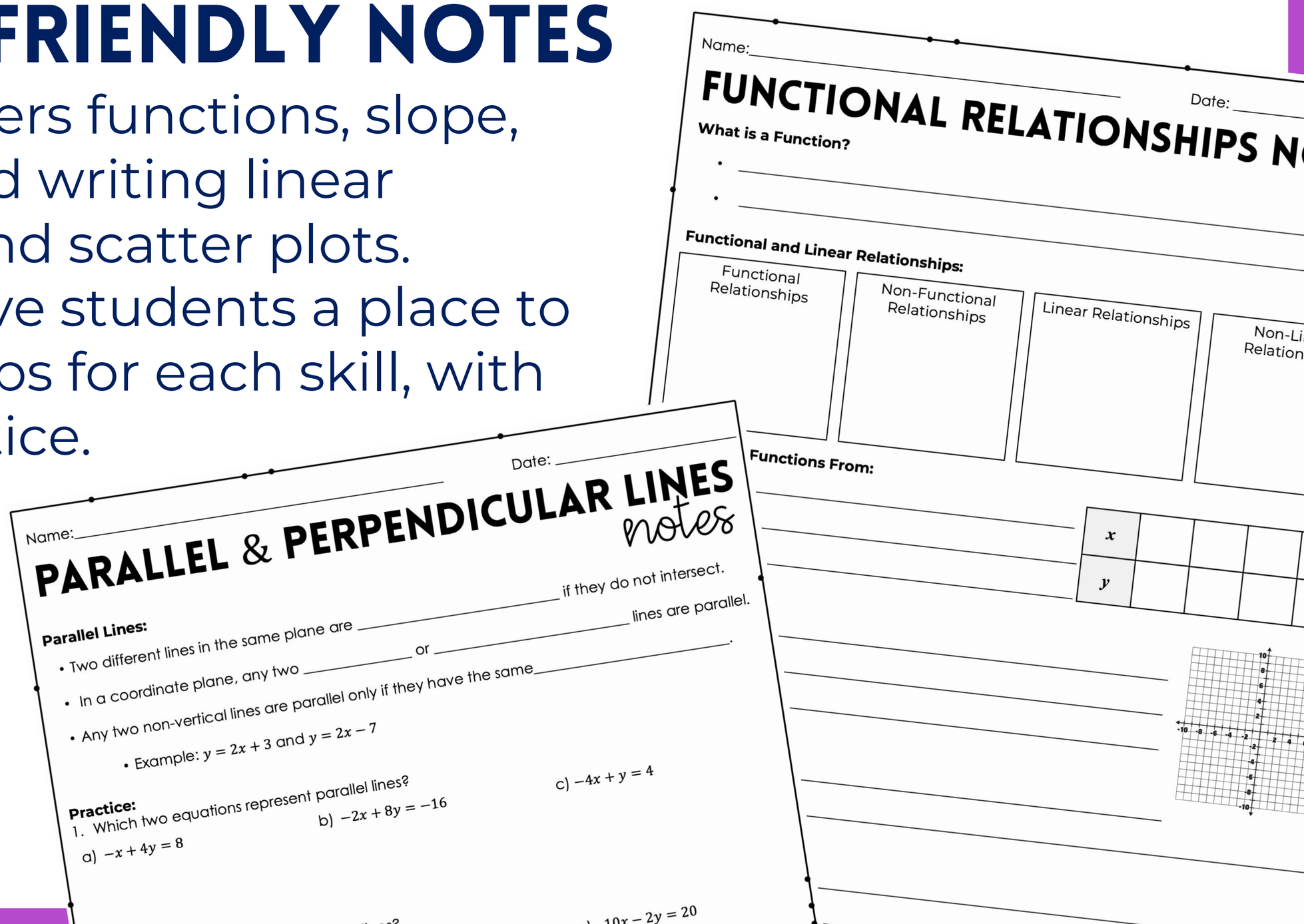
Skill: Line of Best Fit

raw a line of best fit and write an equation
r the line.

2) Draw a line of best fit and write an equation for the line.

STUDENT FRIENDLY NOTES

- This unit covers functions, slope, graphing and writing linear equations, and scatter plots.
- The notes give students a place to learn the steps for each skill, with guided practice.



PRACTICE WORKSHEETS

- Each skill includes a worksheet for independent practice and skill reinforcement.

Name: _____ Date: _____

LINEAR EQUATIONS APPLICATIONS *practice*

1. Josiah joined a gym and paid a $20 membership fee. Every three months he pays $60 to continue to be a member. Let x represent the number of months he is a member and y represent the total he has paid for his membership.

   a) Write an equation to represent this situation.

   b) Identify the slope and y-intercept.

   c) Graph.

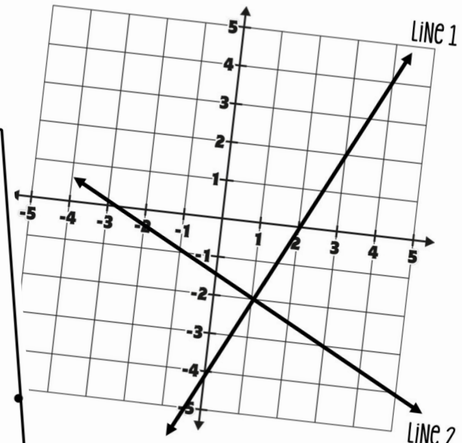
   d) How much will he have paid after 5 months? After two years?

2. The value of a new car is $20,000. Every two years the value drops $2,500. Let x represent the age of the car in years and y represent the value of the car.

Name: _____ Date: _____

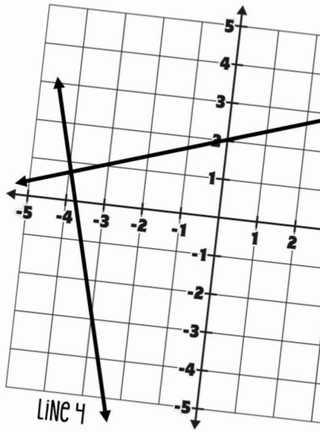
FINDING SLOPE FROM GRA *pra*

Directions: Find the slope of each line.



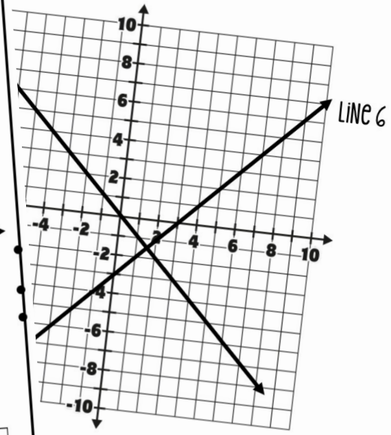
Slope = _____

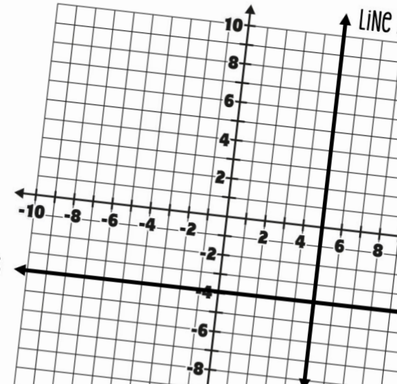
Slope = _____



Line 3 Slope = _____

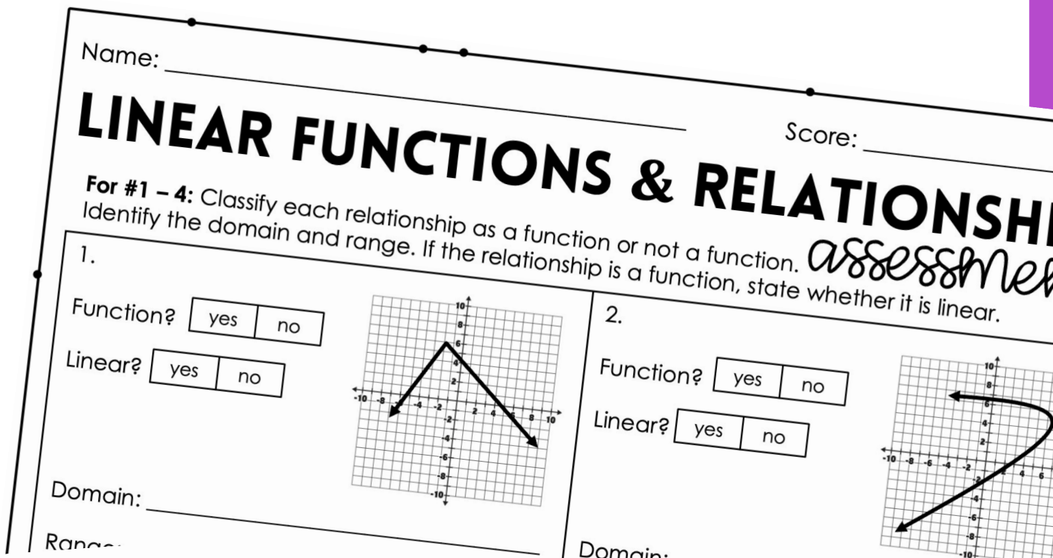
Line 4 Slope = _____

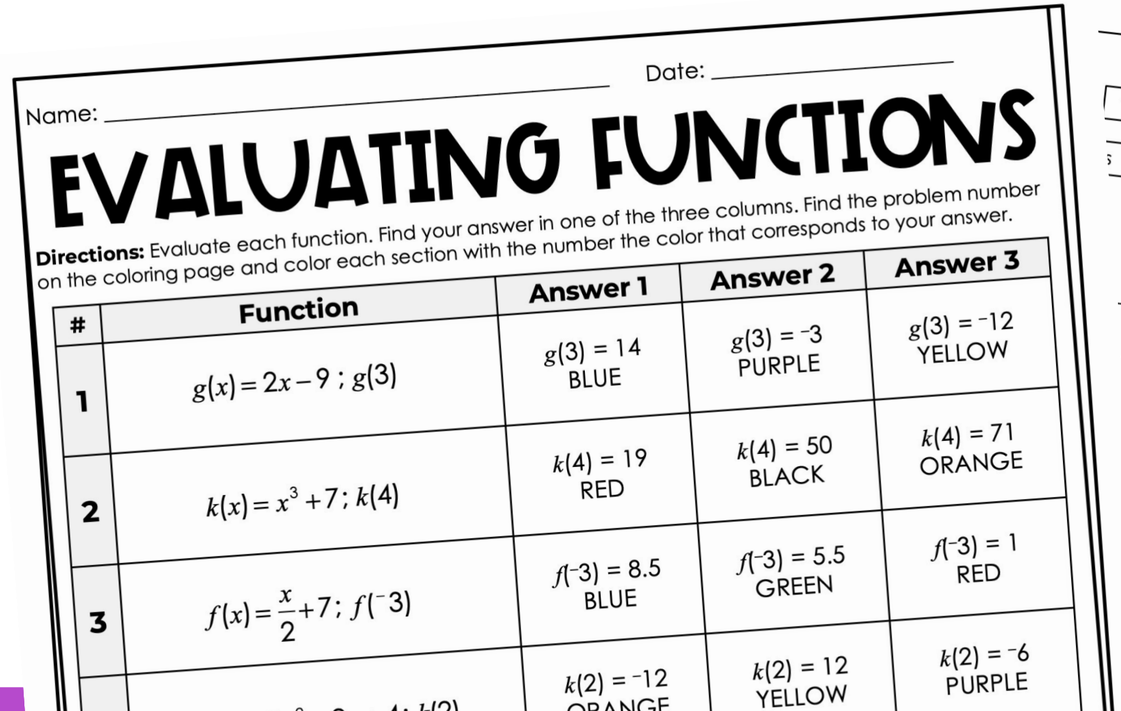




ACTIVITIES AND ASSESSMENTS

- Each lesson includes an activity such as a maze, coloring pages, etc.
- Pre and Post-Assessments are included along with quizzes.





TEACHER RESOURCES

- Pacing guide
- Tracking pages
- Lesson info sheets
- Binder covers and spine labels



EVERYTHING INCLUDED:

- Lessons are designed for 30-45 minute on-level classes and may need to be adjusted for longer classes or varied levels.
- Also includes an answer key and editable version.

UNIT 4

ALGEBRA 1 curriculum
BEYOND THE WORKSHEET

Linear Functions and Relationships

Lesson	Resources
Unit Prep (pgs. 7 – 13)	• Weekly Warm Up Sheet • Exit Tickets • Lesson Plan Template • Vocabulary Sheets • Pre-Assessment
(1) Identifying and Evaluating Functions (pgs. 14 – 30)	• 4 Warm Ups • Functional Relationships Notes • Identifying Functions Graphic Organizer • Identifying Functions Fold and Flip Notes • Identifying Functions Practice Worksheet – 2 pages • Evaluating Functions Notes • Evaluating Functions Practice Worksheet • Graphing Functional Relationships Notes • Graphing Functional Relationships Practice Worksheet • 4 Exit Tickets • Supplemental Resources • Evaluating Functions Coloring Worksheet

(2) Calculating Slope (pgs. 31 – 51)	• 4 Warm Ups
	• Exploring Slope on a Graph
	• Slope and Rate of Change Notes
	• Types of Slope Fold and Flip Notes
	• Finding Slope From Fold and Flip Notes
	• Finding Slope From Graphs Practice Worksheet
	• Slope from Two Points Practice Worksheet
	• Slope and Rate of Change Practice
	• Slope Applications Notes
	• Slope Applications Practice
	• 4 Exit Tickets
	• Supplemental Resources
	  • Slope Board Game
	  • Slope From Two Points Coloring Page
	  • Slope Task Cards

(3) Graphing Linear Relationships Using Tables and Slope-Intercept Form (pgs. 52 – 66)	• 4 Warm Ups • Graphing Linear Equations From Tables Notes • Graphing Linear Equations From Tables Practice • Slope-Intercept Form Notes • Slope and y–intercept Graphic Organizers • Slope-Intercept Practice Worksheets • Slope-Intercept Form Riddle • 4 Exit Tickets • Supplemental Resources • Slope-Intercept Form Coloring Worksheet

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EVERYTHING INCLUDED:

- Lessons are designed for 30-45 minute on-level classes and may need to be adjusted for longer classes or varied levels.
- Also includes an answer key and editable version.

UNIT 4

ALGEBRA 1 curriculum
BEYOND THE WORKSHEET

Linear Functions and Relationships

Lesson	Resources
(4) Graphing Linear Relationships Using Intercepts (pgs. 67 – 72)	• 2 Warm Ups • Graphing Linear Equations Using Intercepts Notes • Graphing Linear Equations Using Intercepts Practice • 2 Exit Tickets
(5) Graphing Linear Relationships Using Point-Slope Form (pgs. 73 – 81)	• 2 Warm Ups • Point-Slope Form Notes • Point-Slope Form Practice • Graphing Review Worksheet • Graphing and Slope Quiz • 2 Exit Tickets • Supplemental Resources in Folder • Point-Slope and Slope-Intercept Matching Activity
(6) Parallel and Perpendicular Lines (pgs. 82 – 89)	• 2 Warm Ups • Parallel and Perpendicular Lines Notes • Parallel and Perpendicular Lines Practice Worksheets • Parallel and Perpendicular Lines Maze • 2 Exit Tickets
(7) Graphing Linear Equations Applications (pgs. 90 – 97)	• 1 Warm Up • Graphs & Linear Applications Notes • Graphing Linear Equations Applications • Applications and Parallel/Perpendicular Lines Quiz • 1 Exit Ticket
(8) Scatter Plots and Line of Best Fit (pgs. 98 – 110)	• 4 Warm Ups • Constructing and Interpreting Scatter Plots Notes • Constructing Scatter Plots Practice Worksheet • Interpreting Scatter Plots Practice Worksheets • Line of Best Fit Notes • Line of Best Fit Practice • Scatter Plots and Line of Best Fit Quiz • 4 Exit Tickets
End of Unit (pgs. 111 – 117)	• Study Guide • Unit Exam

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Have questions?

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