

keep scrolling to get a sneak peek!

Help your Algebra 1 students review **writing & graphing linear equations in slope intercept form** skills with these Thanksgiving review stations! Students will be eager to get the self-checking & student choice benefits from these activities!

SLOPE INTERCEPT FORM REVIEW

Thanksgiving Stations

The collage features four worksheets:

- GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD:** Includes three coordinate planes with lines graphed. 1. $y = 2x + 1$, slope: 2, y-intercept: (0, 1). 2. $y = -1/2x + 4$, slope: -1/2, y-intercept: (0, 4). 3. $y = 3/4x - 2$, slope: 3/4, y-intercept: (0, -2).
- WRITING SLOPE INTERCEPT FORM MATCHING:** A matching activity with four points on the left and four equations on the right. Lines connect the points to their corresponding equations: (2, 3) & (6, 7) to $y = 4/3x - 6$; $m = 4/3$ & (3, -2) to $y = -3/2x + 4$; $m = -4$ & (0, 3) to $y = -x + 5$; and a point (0, -5) to $y = -4x + 3$.
- Word Problems:** Two word problems labeled A and C. Problem A: "When Jordan bought his new car, it was worth \$25,000. After one year, the car's value dropped to \$23,000 and began to depreciate. If this pattern continues each year, what will the car's value be after 5 years?" Problem C: "A water tank initially has 800 gallons of water. After 2 hours of filling, the gauge reads 1,600 gallons. If the tank fills at a constant rate, how much water will it have after 5 hours?"



4 Stations activities + Answer keys

© Malia Rivera, 2025

Why do you need this?

Slope Intercept Form Review Stations



There are a variety of activities that cover several topics.



Help your students practice these essential math skills.



The activities have self-checking components so students can receive feedback!

The collage features several worksheets:

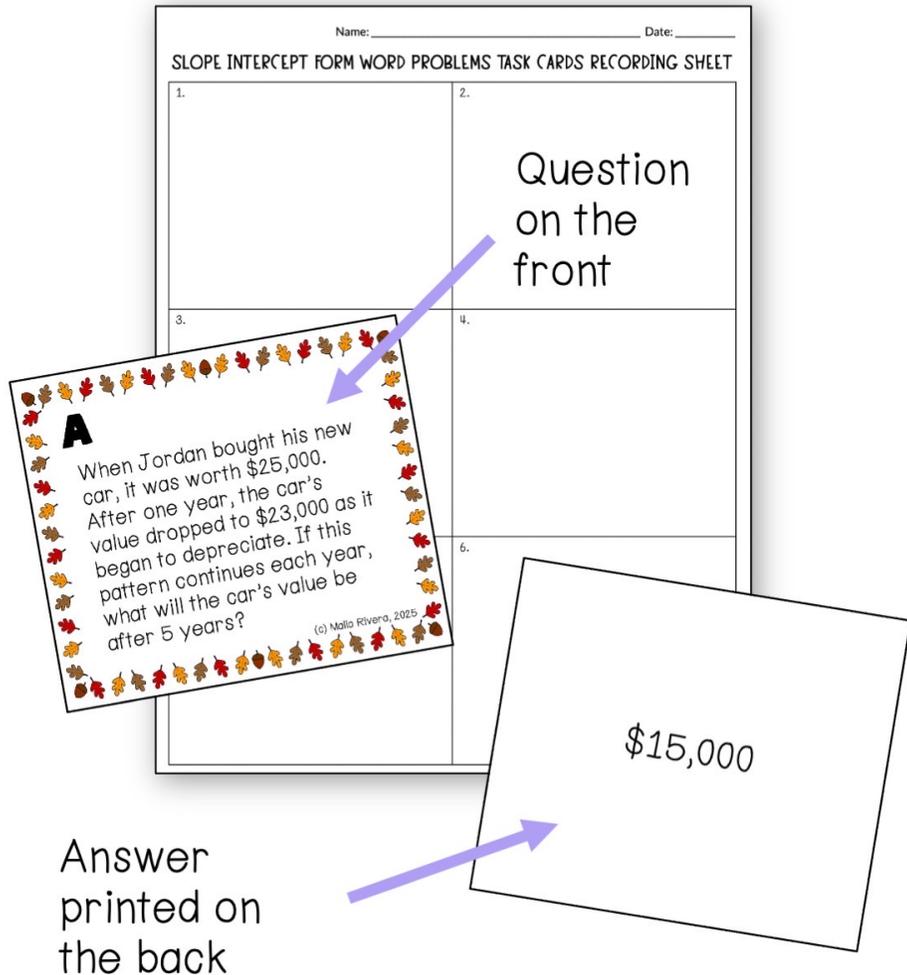
- SLOPE INTERCEPT FORM WORD PROBLEMS TASK CARDS RE...**: Includes problems like finding the equation of a line through points $(0, 25000)$ and $(1, 23000)$, and a word problem about a car's value.
- REWRITING INTO FUNCTION**: A table with equations like $3x + 2y = 10$ and $y - 4 = 2(x + 3)$ to be rewritten.
- GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD**: Six coordinate planes with lines graphed and labeled with letters (S, E, A, W, G, R, O, T, C, A, B) to form a mystery word.
- WRITING SLOPE INTERCEPT FORM MATCHING**: A matching activity with eight problems on the left (e.g., $(2, 3)$ & $(6, 7)$) and eight equations on the right (e.g., $y = 4/3x - 6$).

Slope Intercept Form Thanksgiving Review Stations *includes:*

The image shows three overlapping worksheets. The top-left worksheet is titled "ANSWER KEY" and "REWRITING INTO FUNCTION FORM PIXEL ART". It contains three problems: A. $3x + 2y = 10$ with handwritten work showing $y = -\frac{3}{2}x + 5$; B. $y - 4 = 2(x + 3)$ with handwritten work showing $y - 4 = 2x + 6$ and $y = 2x + 10$; and C. $5x - y = -10$ with handwritten work showing $-5x - 5x$ and $-y = -5x - 10$. The top-right worksheet is titled "SLOPE INTERCEPT FORM WORD PROBLEMS TASK CARDS RECORDING SHEET" and has numbered boxes for answers. The bottom worksheet is titled "GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD" and contains six problems, each with a coordinate plane and a line graphed. The equations are: 1. $y = 2x + 1$ (reveals 'T U'), 2. $y = -1/2x + 4$ (reveals 'E A'), 3. $y = 3/4x - 2$ (reveals 'A S'), 4. $y = -3x + 5$ (reveals 'I R'), 5. $y = 1/3x - 4$ (reveals 'S O'), and 6. $y = -x - 1$ (reveals 'R A'). At the bottom, it says "Most people think of this when they think of 'Thanksgiving'." with a grid of numbers: 5, 1, 6, 4, 2, 3.

- ✓ 4 printable station activities
- ✓ detailed answer keys
- ✓ color & printer-friendly versions

station 2 - Self-Checking Task Cards



Answer printed on the back

Skill: Slope Intercept Form Word Problems

(Given two points or slope and point)

Students will answer the question on the front by showing their work on the provided recording sheet. To make it self-checking, print the answers on the back of the cards.

Includes:

- 6 questions
- Recording sheet
- Answers printed on the back (optional)
- Detailed answer key

station 3 - Mystery Word Graphing

Name: **ANSWER KEY** Date: _____

GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD

Directions: Graph each given function in slope intercept form. Write the letter that your graph crosses through in the corresponding question number at the bottom of the worksheet.

1. $y = 2x + 1$

slope: **2**
y-intercept: **(0, 1)**

2. $y = -1/2x + 4$

slope: **-1/2**
y-intercept: **(0, 4)**

4. $y = -3x + 5$

slope: **-3**
y-intercept: **(0, 5)**

5. $y = 1/3x$

slope: **1/3**
y-intercept: _____

Most people think of this when they think of "Thanksgiving".
T **U** **R**
5 1 6

Name: _____ Date: _____

GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD

Directions: Graph each given function in slope intercept form. Write the letter that your graph crosses through in the corresponding question number at the bottom to reveal a mystery word.

1. $y = 2x + 1$

slope: _____
y-intercept: _____

2. $y = -1/2x + 4$

slope: _____
y-intercept: _____

3. $y = 3/4x - 2$

slope: _____
y-intercept: _____

4. $y = -3x + 5$

slope: _____
y-intercept: _____

5. $y = 1/3x - 4$

slope: _____
y-intercept: _____

6. $y = -x - 1$

slope: _____
y-intercept: _____

Most people think of this when they think of "Thanksgiving".
5 1 6 4 2 3

© Malia Rivera, 2025

Skill: Graphing in Slope Intercept Form

Given the the slope intercept form equation, students must identify the slope and the y-intercept and graph the line on the coordinate plane. Their line will go through a letter that they will record at the bottom of the worksheet to reveal a mystery Thanksgiving word.

Includes:

- 6 questions
- Answer key

station 4 - Self-Checking Pixel Art

Name: **ANSWER KEY** Date: _____

REWRITING INTO FUNCTION FORM PIXEL ART

Directions: Rewrite each of the given equations into function form, aka slope intercept form. Find your answer from the choices below the problem. Then color in the grid based on your answers.

A. $3x + 2y = 10$
 $-3x \quad -3x$
 $2y = -3x + 10$
 $\frac{2y}{2} = \frac{-3x + 10}{2}$
 $y = -\frac{3}{2}x + 5$

B. $y - 4 = 2(x + 3)$
 $y - 4 = 2x + 6$
 $+4 \quad +4$
 $y = 2x + 10$

C. $5x - y = -10$

D. $2(y + 1) = -4x + 6$
 $2y + 2 = -4x + 6$
 $-2 \quad -2$
 $2y = -4x + 4$
 $\frac{2y}{2} = \frac{-4x + 4}{2}$
 $y = -2x + 2$

E. $4x + 3y = 9$
 $-4x \quad -4x$
 $3y = -4x + 9$
 $\frac{3y}{3} = \frac{-4x + 9}{3}$
 $y = -\frac{4}{3}x + 3$

F. $y + 2 = \frac{1}{2}(x - 6)$

Color key for the grid:

$y = -3/2x + 5$ Orange	$y = -3/2x + 5$ Red	$y = 3/2x + 5$ Blue	$y = 2x - 10$ Light Pink	$y = 2x + 2$ Purple	$y = 2x + 10$ Brown
$y = -2x - 2$ Yellow	$y = -2x + 2$ Tan	$y = -4x + 6$ Blue	$y = -4/3x + 3$ Yellow	$y = 4/3x + 3$ Light Blue	$y = 1/2x + 1$ Purple
$y = -2x - 2$ Yellow	$y = -2x + 2$ Tan	$y = -4x + 6$ Blue	$y = -4/3x + 3$ Yellow	$y = 4/3x + 3$ Light Blue	$y = -4/3x - 3$ Black
$y = -2x - 2$ Yellow	$y = -2x + 2$ Tan	$y = -4x + 6$ Blue	$y = -4/3x + 3$ Yellow	$y = 4/3x + 3$ Light Blue	$y = 1/2x + 1$ Purple
$y = -2x - 2$ Yellow	$y = -2x + 2$ Tan	$y = -4x + 6$ Blue	$y = -4/3x + 3$ Yellow	$y = 4/3x + 3$ Light Blue	$y = -1/2x + 5$ Brown
$y = -2x - 2$ Yellow	$y = -2x + 2$ Tan	$y = -4x + 6$ Blue	$y = -4/3x + 3$ Yellow	$y = 4/3x + 3$ Light Blue	$y = -1/2x + 1$ Orange

© Malia Rivera, 2025

Skill: Rewriting into Function Form

Students are given a linear equation in standard or point-slope form (or some variation) and they must rewrite the equation into function form, aka slope intercept form. They will match their answer to a color and color in the grid based on their answers.

Includes:

- 6 questions
- Detailed answer key

Slope Intercept Form Review Stations

standards covered:

CCSS: 8.EE.B.6, HSA-CED.A.2

TEKs: A1.2.B, A1.3.C

VA SOLs: EI.A.6.b, EI.A.6.c

Name: _____ Date: _____

GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD

Directions: Graph each given function in slope intercept form. Write the letter that your graph crosses through in the corresponding question number at the bottom to reveal a mystery word.

1. $y = 2x + 1$

slope: _____
y-intercept: _____

2. $y = -1/2x + 4$

slope: _____
y-intercept: _____

3. $y = 3/4x - 2$

slope: _____
y-intercept: _____

4. $y = 3x + 5$

slope: _____
y-intercept: _____

5. $y = 1/3x - 4$

slope: _____
y-intercept: _____

6. $y = -x - 1$

slope: _____
y-intercept: _____

C A water tank initially has 800 gallons of water. After 2 hours of filling, the gauge reads 1,600 gallons. If the tank fills at a constant rate, how much water will the tank have after 5 hours?

D A local gym charges a \$30 sign-up fee and then \$15 per month for membership. How much would someone spend after 8 months of having the gym membership?

_____ think of "Thanksgiving".
_____ 2 _____ 3

© Malia Rivera, 2025

how to use this resource

This is a great activity to use when reviewing for an end of unit assessment on **writing & graphing slope intercept form** or as an end of year review.

These stations are also a **substitute-friendly** assignment!

Name: _____ Date: _____

REWRITING INTO FUNCTION FORM PIXEL ART

Directions: Rewrite each of the given equations into function form, aka slope intercept form. Then color in the grid based on your answer from the choices below the problem.

A. $3x + 2y = 10$
B. $y - 4 = 2(x + 3)$
C. $5x - y = -1$
D. $2(y + 3) = x - 1$
E. $y = 2x + 10$
F. $y = -3/2x - 5$
G. $y = -3/2x + 5$

Name: _____ Date: _____

WRITING SLOPE INTERCEPT FORM MATCHING

Directions: Given the information on the left side of the page and write the equation in slope intercept form. Find the matching slope intercept form equation on the right side and draw a line connecting the question and the answer. Write the letter in the corresponding number blank at the bottom of the page to reveal a mystery word.

1. $(2, 3)$ & $(6, 7)$ • _____
2. $m = 4/3$ & $(3, -2)$ • _____
3. $m = -4$ & $(0, 3)$ • _____
4. • _____

_____ $y = 4/3x - 6$
_____ $y = -3/2x + 4$
_____ $y = -x + 5$
_____ $y = -4x + 3$
_____ $y = x + 1$
_____ $y = 1/2x + 2$
_____ $y = 3/2x + 4$
_____ $y = 1/2x + 2$
_____ $y = x - 1$
_____ $y = x - 5$
_____ for _____

Name: _____ Date: _____

GRAPHING SLOPE INTERCEPT FORM MYSTERY WORD

Directions: Graph each given function in slope intercept form. Write the letter that your graph crosses through in the corresponding question number at the bottom to reveal a mystery word.

1. $y = 2x + 1$

slope: _____
y-intercept: _____

2. $y = -1/2x + 4$

slope: _____
y-intercept: _____

3. $y = 3/4x - 2$

slope: _____
y-intercept: _____

4. $y = -3x + 5$

slope: _____
y-intercept: _____

5. $y = 1/3x - 4$

slope: _____
y-intercept: _____

6. $y = -x - 1$

slope: _____
y-intercept: _____

© Malia Rivera, 2025

You may also enjoy ...

WRITING IN SLOPE INTERCEPT FORM

Digital & Print Activity Pack

10 Activities

© Malia Rivera, 2024

CHOICE BOARDS BUNDLE

Graphing Linear Functions

© Malia Rivera, 2021

ALGEBRA 1 SPIRAL REVIEW

End of Year Practice

80 Mixed-Review Questions

© Malia Rivera, 2025

Free Algebra Activities!

When you join my email list, I'll send you a free Algebra print & digital self-checking activities. There is an Algebra 1 and Algebra 2 version!

You'll also be getting exclusive freebies and content to help your Algebra students be successful this school year!

check it out!

Rational Expression Operations - Addition & Subtraction

Directions: Answer each question and type the question number with the matching answer in the answer column to the right.

#	Question	Answer	Type the matching question numbers here
1	$\frac{5}{x} + \frac{3}{x+1}$	$\frac{2x+1}{x+2}$	
2	$\frac{2}{x+4} - \frac{x^2}{x^2-16}$	$-\frac{1}{x^2-1}$	
3	$\frac{x+2}{x^2+4x+4} + \frac{2x}{x+2}$	$\frac{2x^2+2x+5}{x^2+x-2}$	
4	$\frac{x}{x-2} + \frac{3}{x-1}$	$\frac{-x^2+2x-8}{x^2-16}$	
5	$\frac{x}{4x+8} - \frac{1}{x^2+2x}$	$\frac{8x+5}{x^2+1}$	
6	$\frac{x+2}{x-1} + \frac{x-1}{x+2}$	$\frac{x^2-3x+7}{x^2-4}$	
7	$\frac{2x+1}{x^2-4} + \frac{x-3}{x+2}$	$\frac{x^2+2x-6}{x^2-3x+2}$	
8	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

(c) Malia Rivera, 2024



hey there!

My name is Malia and I'm passionate about making learning and practicing math fun. I love creating engaging math resources for my students and I hope your students enjoy this activity too!

Did you know you could get **FREE** money from TPT??

All you need to do is leave feedback on the product after you purchase. [Click here](#) to leave reviews and earn credits towards your next TPT purchase!

let's connect!



Follow my TPT store



Follow my Instagram



Email me