

keep scrolling to
get a sneak peek!

Help your 8th Grade/Algebra 1 students practice **solving systems of equations by graphing**. Your students will benefit from being given choice when it comes to how they want to practice math!

SYSTEMS OF EQUATIONS BY GRAPHING CHOICE BOARD

Date: _____ Period: _____ Name: _____

Equations Choice Board

Directions: Choose _____ problems from each column. Solve the system by graphing.

$y = -1/2x + 3$ $y = -4x + 3$	$y = -x - 1$ $y = 2x - 4$
$y = x + 2$ $y = x - 3$	$y =$ $y =$

ANSWER KEY

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve the system by graphing.

$y = -2/3x + 4$ $y = 1/3x + 1$ (2,3)	$y = -1/2x + 3$ $y = -4x + 3$ (0,3)
$y = -x + 1$ Infinitely many solutions $y = -x + 1$	$y = x + 2$ No Solution $y = x - 3$

Math with Ms. Rivera

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Why do you need this?



Allowing student choice in how they practice will encourage them to do the practice!



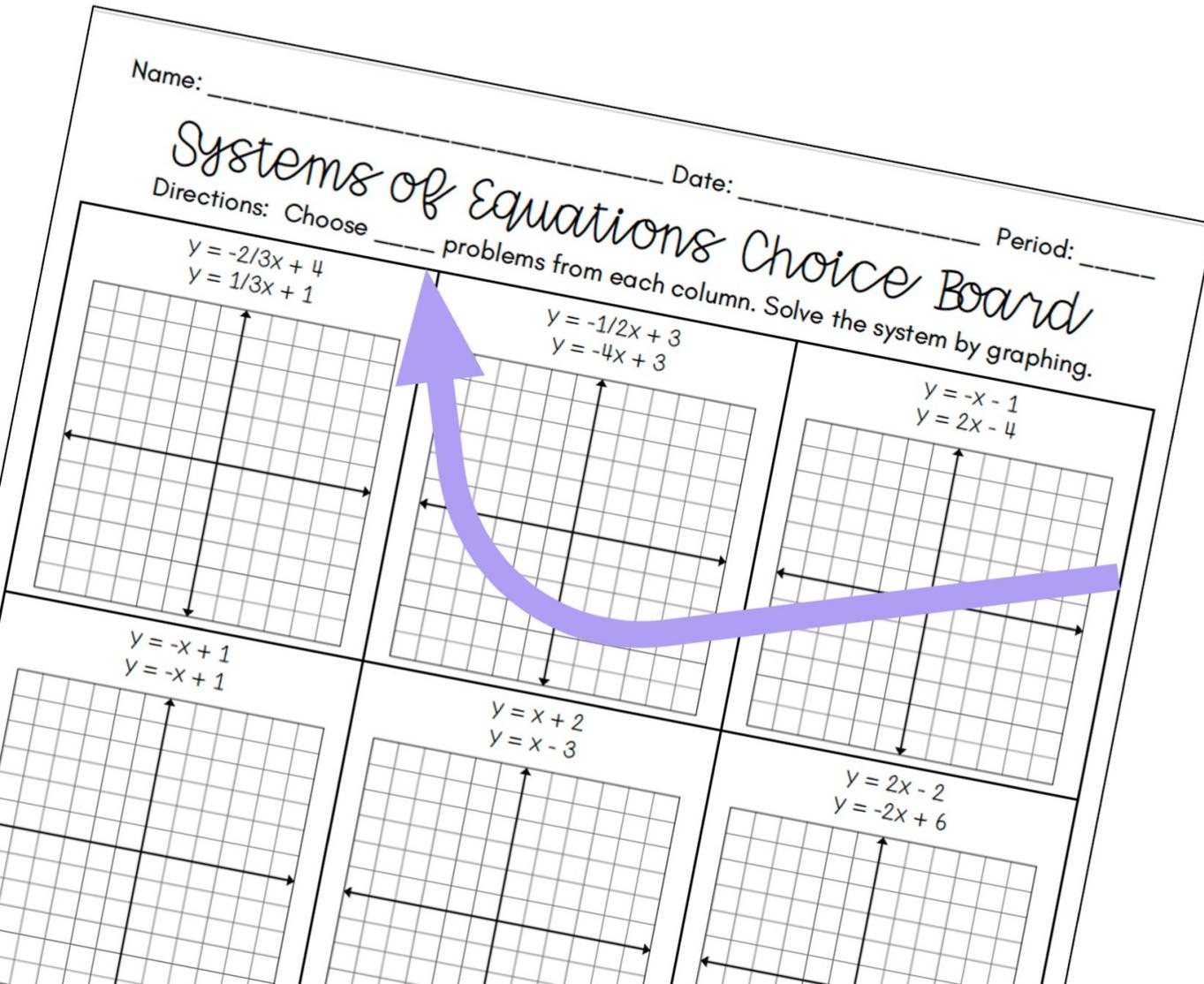
You can differentiate by the number of problems required of particular students.

Systems of Equations by Graphing Choice Board

The image shows two overlapping worksheets titled "Systems of Equations Choice Board". Each worksheet has a header with "Name: _____", "Date: _____", and "Period: _____". The instructions are "Directions: Choose _____ problems from each column. Solve the system by graphing." The worksheets are divided into a 3x3 grid of graphing problems. The bottom worksheet is an "ANSWER KEY" showing solutions for each system of equations:

- Top-left: $y = -2/3x + 4$ and $y = 1/3x + 1$. Solution: $(2, 3)$
- Top-middle: $y = -1/2x + 3$ and $y = -4x + 3$. Solution: $(0, 3)$
- Top-right: $y = -x - 1$ and $y = 2x - 4$. Solution: $(1, -2)$
- Middle-left: $y = -x + 1$ and $y = -x + 1$. Solution: "Infinitely many solutions"
- Middle-middle: $y = x + 2$ and $y = x - 3$. Solution: "NO SOLUTION"
- Middle-right: $y = -x + 2$ and $y = x - 3$. Solution: "NO SOLUTION"
- Bottom-left: $y = -2/3x + 4$ and $y = 2x - 4$. Solution: $(2, 3)$
- Bottom-middle: $y = -3/2x - 1$ and $y = -3/2x + 5$. Solution: "NO SOLUTION"
- Bottom-right: $y = -3/2x - 1$ and $y = -3/2x + 5$. Solution: "NO SOLUTION"

Systems of Equations by Graphing Choice Board *includes:*



- ✓ printable worksheet
- ✓ a detailed answer key
- ✓ 3 columns with 3 questions in each - 9 question total
- ✓ Spot to assign how many problems students need to complete

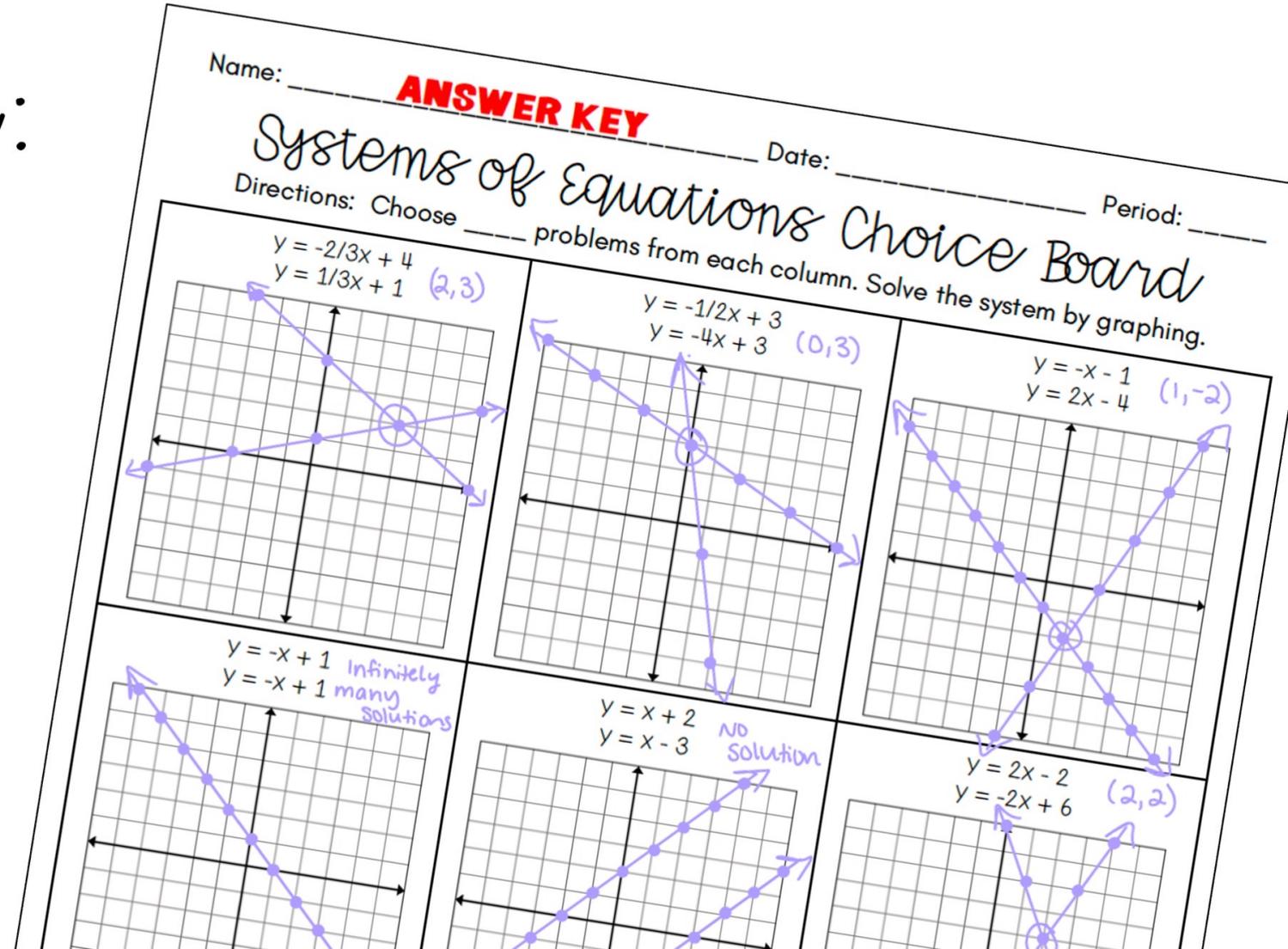
Systems of Equations by Graphing Choice Board

standards covered:

CCSS: 8.EE.C.8,
HSA-REI.C.6

TEKs: A1.5.C

VA SOLs: EI.A.4.d

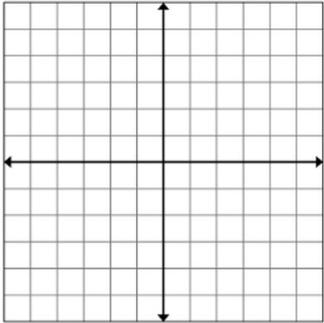
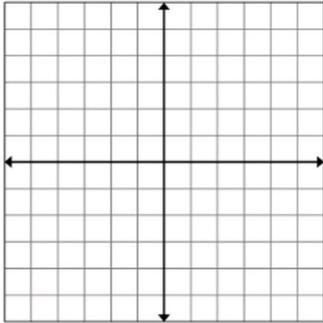
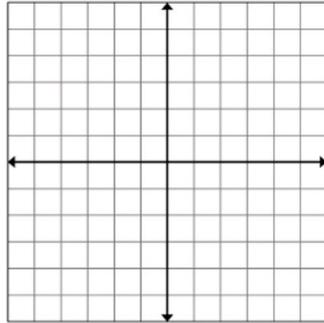
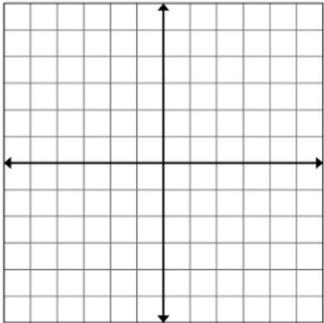
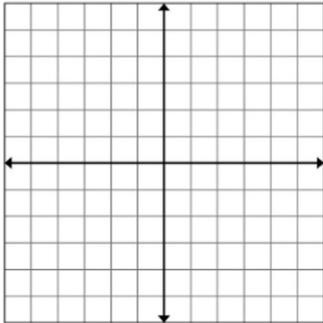
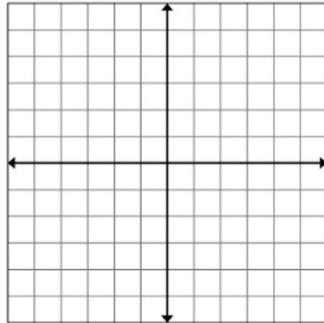


how the choice board resource works

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve the system by graphing.

$\begin{aligned}y &= -2/3x + 4 \\ y &= 1/3x + 1\end{aligned}$ 	$\begin{aligned}y &= -1/2x + 3 \\ y &= -4x + 3\end{aligned}$ 	$\begin{aligned}y &= -x - 1 \\ y &= 2x - 4\end{aligned}$ 
$\begin{aligned}y &= -x + 1 \\ y &= -x + 1\end{aligned}$ 	$\begin{aligned}y &= x + 2 \\ y &= x - 3\end{aligned}$ 	$\begin{aligned}y &= 2x - 2 \\ y &= -2x + 6\end{aligned}$ 
$\begin{aligned}y &= -2/3x + 4 \\ y &= 2x - 4\end{aligned}$	$\begin{aligned}y &= -3/2x - 1 \\ y &= -3/2x + 5\end{aligned}$	$\begin{aligned}y &= 3x + 1 \\ y &= 3x + 1\end{aligned}$

Assign students the number of problems they need to complete from each column.

Differentiate the choice board worksheet by reducing the number of problems assigned to show mastery.

Students can complete the any problems they want to in each column and in any order.

how to use this resource

This is a great individual practice activity to use when reviewing how solve systems of equations by graphing.

My favorite ways to use this choice board is for homework and math practice stations.

This is also a **substitute-friendly** assignment!

Name: _____ **ANSWER KEY** Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve the system by graphing.

$y = -2/3x + 4$ $y = 1/3x + 1$ (2,3)	$y = -1/2x + 3$ $y = -4x + 3$ (0,3)	$y = -x - 1$ $y = 2x - 4$ (1,-2)
$y = -x + 1$ infinitely many solutions $y = -x + 1$	$y = -2/3x + 4$ $y = 1/3x + 1$	$y = -1/2x + 3$ $y = -4x + 3$
$y = -2/3x + 4$ $y = 2x - 4$ (2,3)	$y = -x + 1$ $y = -x + 1$	$y = x + 2$ $y = x - 3$
		$y = 2x - 2$ $y = -2x + 6$

Name: _____ Date: _____ Period: _____

Systems of Equations Choice Board

Directions: Choose _____ problems from each column. Solve the system by graphing.

You may also enjoy ...

SYSTEMS OF EQUATIONS BY GRAPHING

MATCH THE GRAPHS AND SOLUTIONS WITH THE SYSTEMS BY DRAGGING & DROPPING THE PIECES.

Points: $(-2, 2)$, $(2.5, 2.25)$, $(2, 4)$, $(-2, 4)$, $(-0.5, 2.5)$

Systems of Equations:

- $y = -x - 2$
- $y = \frac{1}{2}x + 4$
- $y = -4x - 4$
- $y = -\frac{1}{2}x + 3$
- $y = 4x - 4$
- $y = \frac{1}{2}x + 3$

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Math with Ms. Rivera

CHOICE BOARDS BUNDLE

SYSTEMS OF EQUATIONS

Algebra I

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SYSTEMS OF EQUATIONS

Digital Activity Bundle

Algebra

drag & drop the purple circle over the correct answer.

Systems of Equations:

- $3x + y = 6$
- $3y = 2x + 18$
- $-y + 3x = 16$
- $y - 3x = 30$

Options: PARALLEL, PERPENDICULAR, NEITHER

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check it out!

Answer Key
Name: _____ Date: _____
ADDING & SUBTRACTING RATIONAL EXPRESSIONS
Directions: Add or subtract the rational expressions. Show your work.

ANSWER KEY
Name: _____ Date: _____
SOLVING SYSTEMS OF EQUATIONS
Directions: Solve systems of equations using substitution or elimination. Check your solution.

ANSWER KEY
Name: _____ Date: _____
MULTIPLYING & DIVIDING RATIONAL EXPRESSIONS
Directions: Multiply or divide the rational expressions. Show your work.

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	$\frac{x^2+2x}{x^2-1} - \frac{x+1}{x-1}$	$\frac{x-2}{4x}$	

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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!

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