

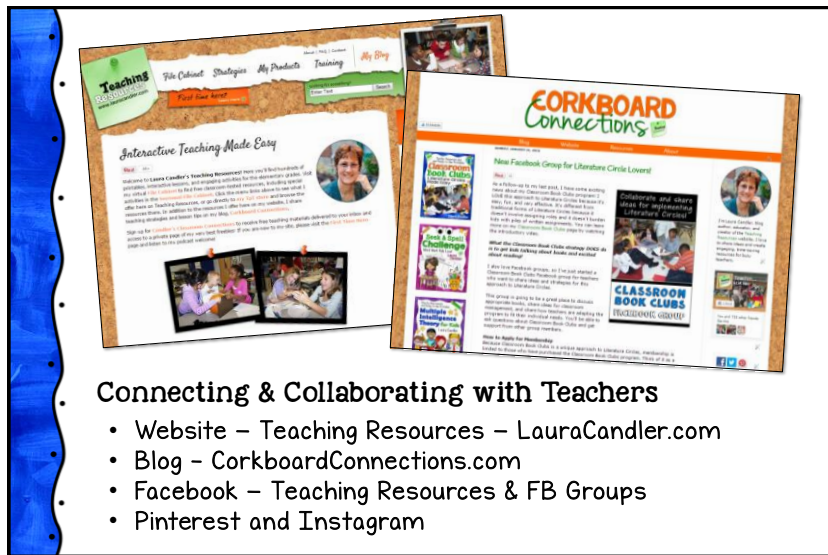
Powerful Strategies for Building Math Vocabulary

Presented by
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Laura Candler - Classroom Teacher

- Classroom teacher (30 years)
- National Board Certified
- Master's Degree in Elementary Ed.
- Milken Educator Award



Connecting & Collaborating with Teachers

- Website – Teaching Resources – LauraCandler.com
- Blog – CorkboardConnections.com
- Facebook – Teaching Resources & FB Groups
- Pinterest and Instagram



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Here's What You'll Learn...

- Why you should spend time teaching math vocabulary
- How to “power up” any activity to make it more effective and to foster vocabulary development
- 4 phases of math vocabulary development
- Specific games, activities, and strategies for each phase

Why Teach Math Vocabulary?

The ability to read, write, and speak the “language of math” is **ESSENTIAL** for mathematical concept development and mastery.

Math Concepts ↔ **Math Vocabulary**

Guess My Number Game

The leader thinks of a number and the other players try to guess what it is by asking yes/no questions.

Examples of Yes/No Questions

- Is the number odd?
- Is it a multiple of 4?
- Is it greater than 30?



My Number is...

- I'm thinking of a number.
- Type yes/no questions in the question box and I'll answer as many as I can.
- When you know the number, type it into the question box.
- Ready, set, go...!



How can we “power up” this learning game?

Let’s tweak it to increase engagement and to foster vocabulary development!



Think of a Lesson You’ve Taught Recently and Ask ...

• How rigorous is the activity?

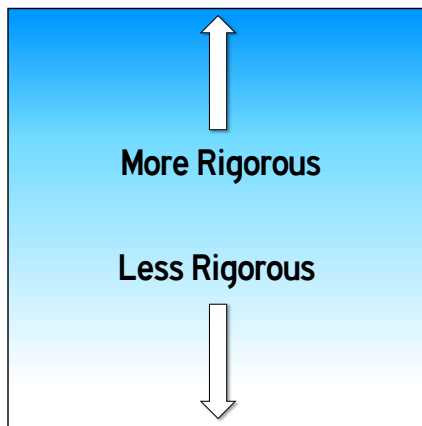
- Does it make kids think?
- Is it challenging?
- Does it involve higher level thinking such as strategizing or analyzing?



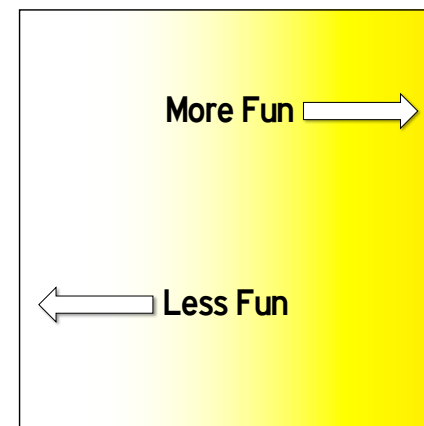
• How fun is the activity?

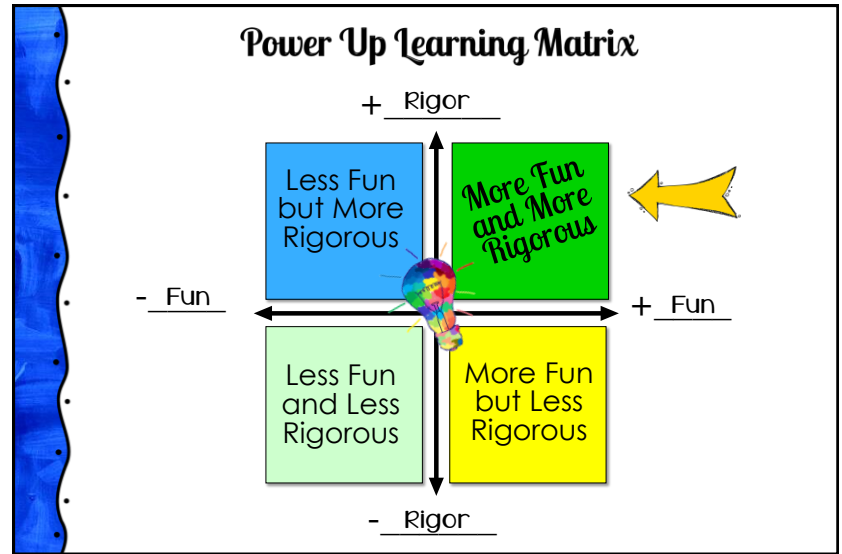
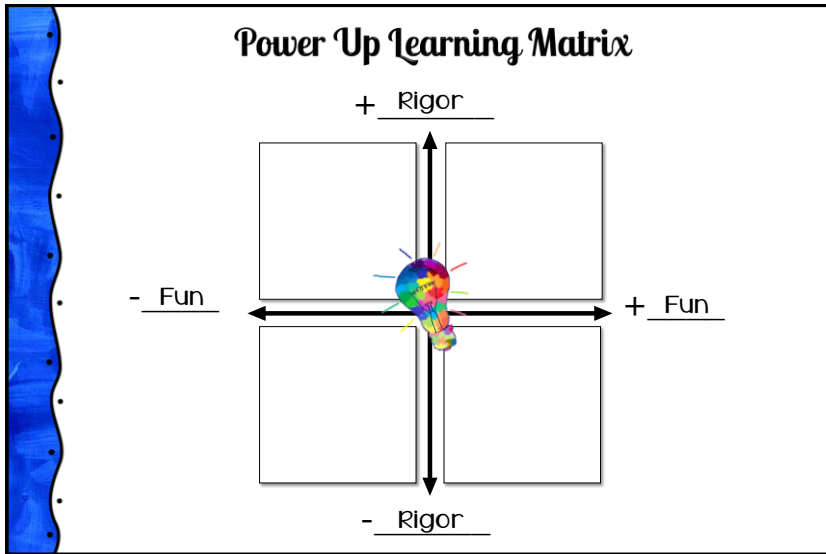
- Is it a game, or similar to a game?
- Are kids actively engaged? (Moving, talking, manipulating materials)
- Would they want to do the activity if they had a choice?

How rigorous is the activity?



How fun is the activity?





How can we power up Guess My Number?

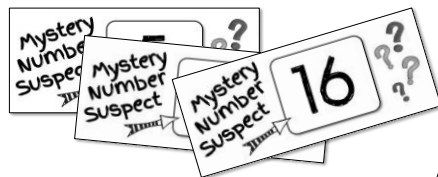
Let's tweak it to make it more challenging AND more engaging/fun!

Three yellow stars and a colorful lightbulb icon.

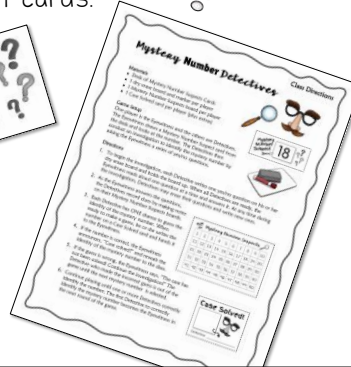
- ## How to Power Up Guess My Number
1. Give it a mystery theme
 2. All players write questions.
 3. Add rules to eliminate guessing.
 4. Encourage precise math vocabulary.
 5. Record clues on number boards.
 6. Assign partners who discuss new questions clues, and game strategies.
-
- A thought bubble containing '+Fun? +Rigor?' and a cartoon detective character.

1 Give It a Mystery Theme

- The Leader becomes the “Eyewitness”
- He or she selects a number from a deck of Mystery Number Suspect cards.

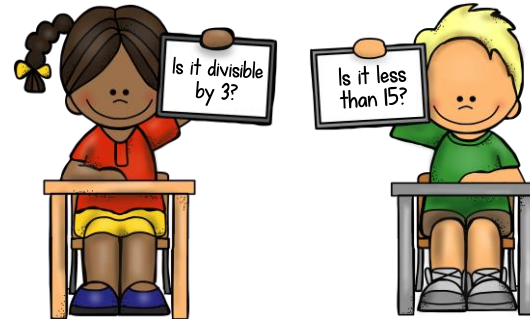


- The other players become Detectives who conduct an investigation to find out the identity of the “suspect.”



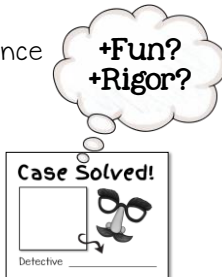
2 All Players Write Questions

- Provide time for each detective to write one question on a dry erase board
- Eyewitness chooses one question at a time to answer



3 Add Rules to Eliminate Guessing

- Each student may only have **one** chance to guess the mystery number
- When making a guess, the student must write down the number and give it to the leader.
- If incorrect, that student is out of the game for that round.
- Students may not write questions in which the answer reveals the number to all players. For example: “Is the number between 3 and 5?”



4 Encourage Precise Vocabulary

- Encourage creative questions that use more challenging and/or precise vocabulary
- Consider limiting the number of times a math term can be used (once in upper grades)



Examples

- Does it have a 7 in the one’s place?
- Is it a single-digit number?
- Is it a prime number?
- Is the number divisible by 3?
- Is the sum of the digits less than 12?

4 Encourage Precise Vocabulary

Mystery Fraction Detectives Variation

Questions must be about the numerator, the denominator, or the fraction.

Examples:

- Is the numerator a multiple of 3?
- Is the fraction greater than $\frac{1}{2}$?

Mystery Fraction Detectives Variation

Mystery Fraction Suspect

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Mystery Fraction Notes

+Fun? +Rigor?

5 Record Clues on a Number Board

Each player needs a laminated number board and a dry erase marker.

As each question is asked and answered, the detectives record "clues" on their number boards to help them find the identity of the mystery number suspect.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

PURPLE

Mystery Number Board Variations

50 Mystery Number Suspects

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

100 Mystery Number Suspects

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

20 Mystery Numbers

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

5 Record Clues on a Number Board

Examples

Q: Is the mystery number suspect greater than 30?

A: No

→ Cross off all numbers >30

50 Mystery Number Suspects

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

PURPLE

5 Record Clues on a Number Board

Examples

Q: Is the mystery number a multiple of 5?

A: Yes

→ Circle all remaining multiples of 5.

+Fun?
+Rigor?

50 Mystery Number Suspects

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

(Note: In the image, numbers 5, 15, 25, 35, 45 are circled in purple. A purple marker is shown below the board.)

6 Assign Partners Who Discuss New Questions, Clues and Game Strategies

- Assign partners (High–Average & Average–Low)
- Give each pair one dry erase board and one number board for recording clues
- After each question is answered, encourage players to discuss "clues" with their partner

+Fun?
+Rigor?



Tips for Team or Math Center Use

- First play together as a class
- Use Role Cards
- Potential Problem: Eyewitness answers incorrectly
- Recommended Solution: Play two against two (2 Eyewitnesses play against 2 Detectives)

Mystery Number Detectives Team Directions

Materials:

- 1 set of Mystery Number Suspects cards
- 1 dry erase board and marker per player
- 1 Mystery Number Suspects board per player
- 1 Case Solved card per player (also extra)

Game Setup:

One player is the Eyewitness and the other team members are Detectives. Rotate roles to the left after each round. To begin the round, the Eyewitness chooses a Mystery Number suspect card from the stack and secretly reads it out loud. The Detectives conduct an investigation to identify the mystery number by asking the Eyewitness a series of yes/no questions.

Directions:

1. After the Eyewitness chooses the number, each Detective writes a yes/no question on their dry erase board and holds the board up. When all Detectives are ready, the Eyewitness reads each one question at a time and answers it.
2. As each question is answered, all Detectives record clues by making circles on their Mystery Number Suspects boards.
3. Each Detective has ONE chance to guess the mystery number. When ready to make a guess, the detective writes the number on a Case Solved card and hands it to the Eyewitness.
4. If correct, the Eyewitness announces, "Case solved!" and reveals the identity of the mystery number to the team.

Case Solved!

Eyewitness TOP SECRET

Detective

Mystery Number Detectives Extras

Yes/No Question Stems

Is the number a factor of ___?	Is it an even number?
Is the number a multiple of ___?	Is there a ___ in the ___'s place?
Is the sum of the digits less than ___?	Is it a prime number?
Is the number less than ___?	Is it a single-digit number?
Is the number divisible by ___?	Is the product of the digits greater than ___?

6 Which number is a factor of 12?
A 3 B 24

21 Which number is greater than a dozen?
A 12 B 10 C 15

5 Which number is a multiple of 4?
A 12 B 10 C 42

8 In which number is the sum of the digits more than 12?
A 29 B 67 C 4

14 Which number is a single-digit number?
A 15 B 24 C 8

Mystery Number Vocabulary - Page 1

- composite number
- difference
- product

Mystery Number Vocabulary - Page 2

- even number
- place value

Mystery Number Vocabulary - Page 3

- multiple
- odd number
- prime number

Mystery Number Detectives



Comments from Cassie Dahl's Students

- Did you realize you can cut the numbers in half by just asking if it is odd or even? Why wouldn't you start with that?
- Coming up with questions is really making my brain work.
- This was so much fun!
- Wow! This is the best game ever.
- Can we please play just one more round??



Cassie Dahl

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Whoever is **doing the talking** is doing the **learning.**

~Anonymous



Get Kids Talking and Writing!

4 Phases of Math Vocabulary Development

1. Discover new math vocabulary
2. Deepen understanding
3. Practice words & meanings
4. Use math vocabulary fluently



1. Discover new math vocabulary

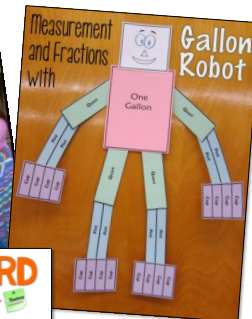
- Direct instruction / math word wall
- Hands-on lessons
- Exploratory activities
- Real world experiences



1 Discover new vocabulary

2. Deepen Understanding

- Talking & writing about math
- Using graphic organizers
- Sorting words & concepts
- Exploring models



2 Deepen understanding

Teaching Decimals with Manipulatives

Link to Post on Webinar Resources Page



BUILD A DECIMAL

Build a Decimal Mat		Use Tens of Blocks	
Tens	Ones	Tenths	Hundredths

Build a Decimal Task Cards	
3.5	14.2
4.37	10.4
17.86	8.93
0.65	25.07
5.2	7.44
3.02	21.5

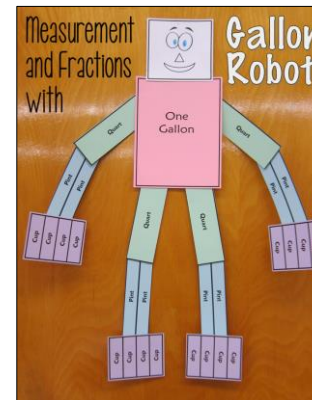
Decimal Mat Patterns & Task Cards

Free!

2 Deepen understanding

Gallon Robot Fraction Model

- Each body part is proportional to the fractional part of the gallon.



2 Deepen understanding

Gallon Robot Fraction Model

Each body part is proportional to the fractional part of the gallon.

Gallons and Pints

1 Gallon = 8 Pints

1 quart = $\frac{1}{4}$ of a gallon

1 pint = $\frac{1}{8}$ of a gallon

Gallon and Cups

1 Gallon = 16 Cups

1 cup = $\frac{1}{16}$ of a gallon

Deepen understanding

Gallon Robot Fraction Model

How Gallon Robot Works

Each upper arm and upper leg represent one **QUART**.

Gallon Robot's torso represents one **GALLON**.

Each part of the lower arm and lower leg represent one **PINT**.

Each finger and toe represent one **CUP**.

Gallon Robot is a visual aid that helps us remember customary capacity units, or units of liquid volume. By analyzing how Gallon Robot is constructed, we can easily remember how many of each unit are in one gallon. Refer to the color-coded illustration on the left as you read the descriptions below.

- Gallon Robot is put together like a human body. Each part of his body represents a quantity of liquid volume, except his head.
- The torso represents the gallon which is the biggest part of the body and to which everything is connected.
- Connected to the gallon are 4 quarts symbolizing arms and legs. This shows that 4 quarts equals a gallon.
- In a human body, the bottom portion of our arms and legs have 2 separate bones, and so does Gallon Robot. Two pints are connected to each quart, so there are 2 pints in each quart and 8 pints in a gallon.
- Gallon Robot also has a total of 16 fingers and toes which represent cups. The fingers are the smallest part on the body, as cups are the smallest unit. Two cups are attached to each pint. Therefore, there are 16 cups in a gallon, 4 cups in a quart, and 2 cups in a pint.
- Point to your own arms and legs as you learn the corresponding parts of Gallon Robot. That way you will be able to remember the units even when you aren't looking at the model.

Deepen understanding

Frayer Model (Math Version)

Definition and/or Characteristics	Illustration or Picture	
Examples	<div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> Word </div>	Non-examples

Free!

Deepen understanding

Frayer Model (Math Version)

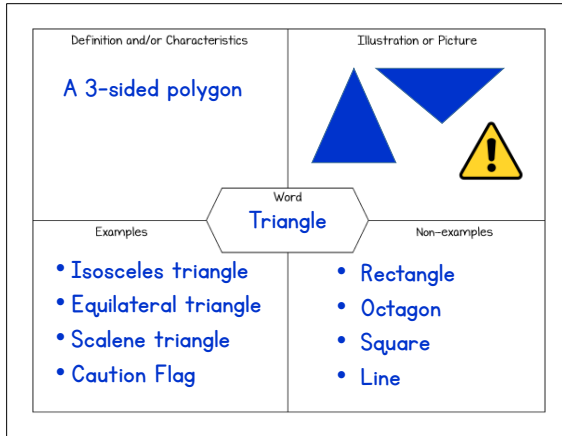
Definition and/or Characteristics A 3-sided polygon	Illustration or Picture 	
Examples	<div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> Word Triangle </div>	Non-examples

<ul style="list-style-type: none"> Isosceles triangle Equilateral triangle Scalene triangle Caution Flag 	<ul style="list-style-type: none"> Rectangle Octagon Square Line
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Deepen understanding

Frayer Model Activity #1 - Introductions

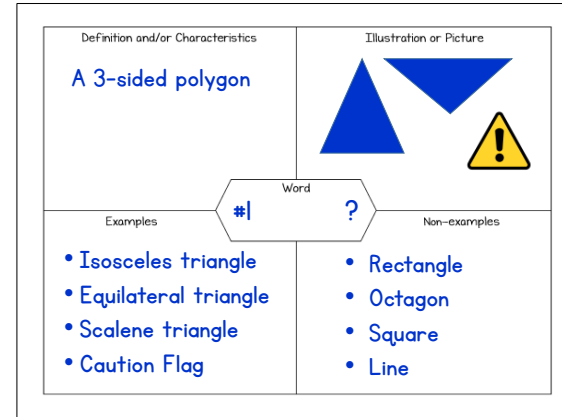
Team members complete a Frayer Model for an assigned vocabulary word, then take turns "Introducing" the word to the team.



Deepen understanding

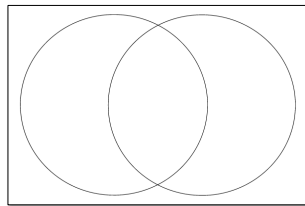
Frayer Model Activity #2 - Mystery Word

Teacher secretly assigns a vocabulary word to each student by number. The student fills out all 4 sections and writes the number in the middle. Frayer models are posted and students try to guess the word that matches the clues.



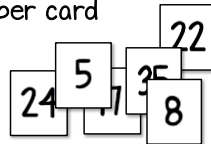
Deepen understanding

Team/Partner Concept Sorting



Materials Needed

- Large graphic organizer
- Deck of sorting cards with one number, word, definition, image, sentence, etc. per card

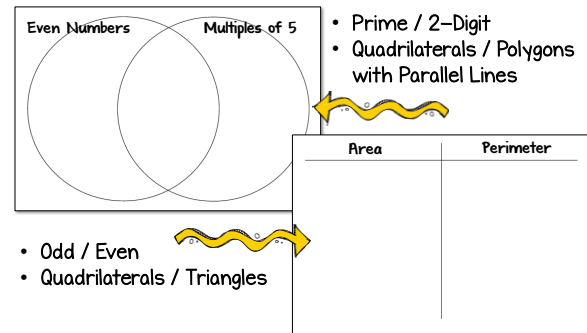


Deepen understanding

Team/Partner Concept Sorting

Venn Diagram or T-chart?

- Venn diagram categories must overlap
- T-chart categories should NOT overlap



Deepen understanding

Number Sorting

Students take turns sorting number tiles. Before placing any number, each student explains his or her reason and the other partner must agree. If they don't agree, they set the number aside for the time being.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Free!

24 5
17 35 22
8

2 Deepen understanding

Number Sorting

Students take turns sorting number tiles. Before placing any number, each student explains his or her reason and the other partner must agree. If they don't agree, they set the number aside for the time being.

24 5
17 35 22
8

2 Deepen understanding

Number Sorting

Students take turns sorting number tiles. Before placing any number, each student explains his or her reason and the other partner must agree. If they don't agree, they set the number aside for the time being.

5

8 24 35 22 17

2 Deepen understanding

Polygon Sorting

Students take turns sorting number tiles. Before placing any number, each student explains his or her reason and the other partner must agree. If they don't agree, they set the number aside for the time being.

Right Angle(s) Quadrilaterals

2 Deepen understanding

Polygon Sorting

Deepen understanding

Area and Perimeter Sorting

Area Problems	Perimeter Problems
<p>Area and Perimeter Problem Solving</p> <p>Directions: Draw each solution. Circle A for area or P for perimeter. Write your answer on the line.</p> <p>1. A farmer needs to buy fertilizer to spread on his garden. The garden is $20'$ by $15'$ rectangle. How many square feet is the garden? A or P Answer _____</p> <p>3. Mr. Thomas wants to fence an area that is 8 feet by 10 feet. How much fence will he need? A or P Answer _____</p> <p>5. A tennis wall is $12'$ by $9'$. A can of paint will cover 50 square feet. Will it be enough? Explain on the back of this paper. A or P Answer _____</p>	<p>2. Mrs. Thomas bought a blanket shaped like an equilateral triangle that measures 3 feet on each side. She wants to put a ribbon around the edge. How long should the ribbon be? A or P Answer _____</p> <p>4. Sam wants to fence in his yard to make a flower bed for his picture. The picture is $12'$ by $10'$ rectangle. What is the total length of the wood strips she will need for the fence project? A or P Answer _____</p> <p>6. The Leekworth family wants to put tile on their bathroom floor. Each tile is 1 foot square. Their bathroom is 4 feet by 6 feet. How many tiles will be needed? A or P Answer _____</p>

Free!

Deepen understanding

Area and Perimeter Word Problem Sorting

Stack cards face down.

Area Problems	Perimeter Problems

Deepen understanding

Area and Perimeter Word Problem Sorting

Area Problems	Perimeter Problems
<p>5. A certain wall is $13'$ by $9'$. A can of paint will cover 50 square feet. Will it be enough? Explain on the back of this paper. A or P Answer _____</p> <p>6. The Leekworth family wants to put tile on their bathroom floor. Each tile is 1 foot square. Their bathroom is 4 feet by 6 feet. How many tiles will be needed? A or P Answer _____</p> <p>1. A farmer needs to buy fertilizer to spread on his garden. The garden is a $20'$ by $15'$ rectangle. How many square feet is the garden? A or P Answer _____</p>	<p>2. Mrs. Thomas bought a blanket shaped like an equilateral triangle that measures 3 feet on each side. She wants to put a ribbon around the edge. How long should the ribbon be? A or P Answer _____</p>

Deepen understanding

Sorting Angles

Right Angles	Obtuse Angles
Acute Angles	

Sorting Angles

2 Deepen understanding

3. Practice words & meanings

- Cooperative Learning Activities
- ✓ Team Plickers Showdown
- ✓ Partner practice worksheets
- Vocabulary flashcards
- Memory matching games

3 practice Words & Meanings

Place Value Partners

Place Value Partners

Sender Directions

- Place seven digits on the Place Value Strip below, one by one.
- As you place each digit, call out the digit name and its place.
- After placing all digits, ask your partner to read the number aloud to you. Listen . . . is that the number on your Place Value Strip?
- Compare your game board with your partner. Do the numbers match? If not, talk it over and discuss the answer.
- Both partners write the base-ten numeral, its number name, and its expanded form on their own recording page or in a journal.
- Switch roles and game boards for the next round.

Place Value Strip

Place Value Partners

Receiver Directions

- Listen as your partner calls out each digit and place.
- Place the digits on the lines below in the correct positions.
- Read the final number to your partner using its correct word name.
- Compare your game board with your partner. Do the numbers match? If not, talk it over and discuss the answer.
- Both partners write the base-ten numeral, its number name, and its expanded form on their own recording page or in a journal.
- Switch roles and game boards for the next round.

Place Value Strip

3 practice Words & Meanings

Place Value Partners

Place Value Partners

Decimal Sender Directions

- Place four numbers on the Place Value Strip below, one by one.
- As you place each number, call out the digit and the place.
- After placing all digits, ask your partner to read the number aloud to you. Listen . . . is that the number on your Place Value Strip?
- Compare your game board with your partner. Do the numbers match? If not, talk it over and discuss the answer.
- Both partners write the number, its word name, and its expanded form on their own recording page or in a journal.
- Switch roles and game boards for the next round.

Decimal Place Value Strip

Place Value Partners

Decimal Receiver Directions

- Listen as your partner calls out each digit and its place.
- Place the digits on the lines below in the correct positions.
- Read the number to your partner using its correct word name.
- Compare your game board with your partner. Do the numbers match? If not, talk it over and discuss the answer.
- Both partners write the number, its word name, and its expanded form on their own recording page or in a journal.
- Switch roles and game boards for the next round.

Decimal Place Value Strip

3 practice Words & Meanings

Worksheet Partner Practice

Partner Decimal Writing

Partner A _____ Partner B _____

Directions: Take turns with your partner. One person quietly reads the word forms to his or her partner and writes the standard form next to it. The other person then checks to see how close it is to correct, or discusses it with you if it doesn't seem to be correct. You can change your answer if you realize you made a mistake. Switch roles for each problem.

- two and fifty-five hundredths
- eighteen and seven tenths
- two hundred fifteen and seventy-five hundredths
- ninety-three hundredths
- six and fourteen thousandths
- three hundred twelve and twenty-two hundredths
- seven and five hundred two thousandths
- ninety and nineteen thousandths
- eight tenths
- forty-one and seven hundredths
- seventy-two and eighty-three hundredths
- four thousandths

Partner Angle Practice

Partner #1 _____
Partner #2 _____

Angle	Type of Angle (Right, Acute, Obtuse)	Estimate	Actual
<A			
<B			
<C			
<D			
<E			
<F			
<G			

Free!

3

practice words & meanings

Memory Matching Games

Student turns over a card, then describes the match BEFORE turning over the next card to find it.

Quadrilateral Matching Cards

parallelogram	a quadrilateral with both sets of opposite sides parallel
rectangle	a quadrilateral with 4 right angles
trapezoid	a quadrilateral with exactly one set of opposite sides parallel
square	a quadrilateral with four right angles and all sides the same length
rhombus	a quadrilateral with all sides the same length

Free!

3

practice words & meanings

Measurement Matching Cards

Basic Units Matching 1

12 Inches	1 Foot
3 Feet	1 Yard
5,280 Feet	1 Mile
	1 Pound
	1 Gallon

Basic Units Matching 2

2,000 Pounds	1 Ton
2 Pints	1 Quart
8 Fluid Ounces	1 Cup
2 Cups	1 Pint
4 Quarts	1 Gallon

3

practice words & meanings

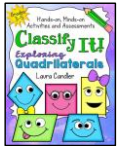
4. Use math vocabulary fluently

- Play games that require knowledge of math vocabulary and concepts
- Read and solve word problems
- Think and reason logically
- Communicate effectively about math

4

Use Math Vocabulary Fluently

Math Vocabulary-Building Games

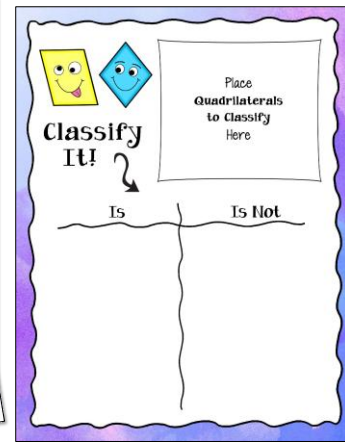
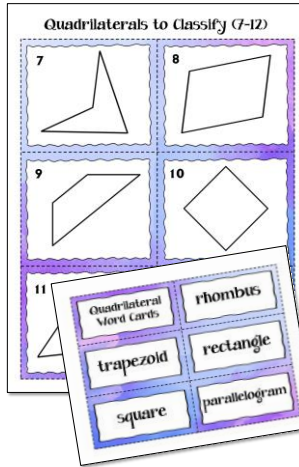


Introduce games that require students to apply knowledge of math vocabulary and skills in order to win.



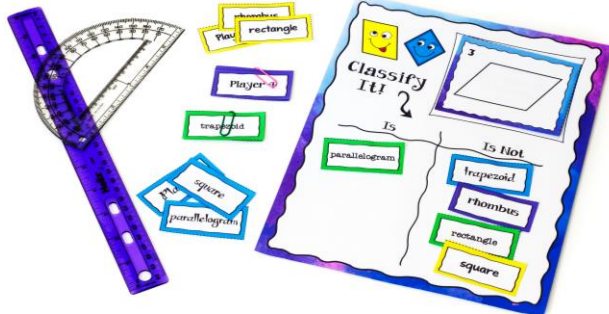
4 Use Math Vocabulary Fluently

Classify It! Exploring Quadrilaterals



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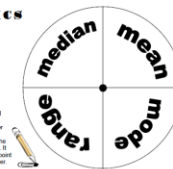
Dynamic Data Game - 2 Levels

STATISTICS SPINNER



Directions: To use the spinner, you'll need a paper clip and a pencil. Put the paper clip down with one end over the center dot. Put the pencil point down inside the paper clip and hold the pencil in place. Flick the paper clip. It will spin around the pencil point and point to one section on the Statistics Spinner.

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DATA CARDS

1	3	7	7	13
18	18	18	12	11
11	14	99	79	3

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1	3	7	7	13
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Created by Sue Moody - Teacher Contributor - Teaching Resources



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Recharge & Write (Math Problem Solving) 4



Recharge & Write

Math Problem Solving Directions

Before You Begin
Decide who will be the first Leader. Place a cup or can in the center of the team for the "recharger." To begin, all team members place their pencils into the recharger. Everyone will need a copy of the math problem worksheet.

What To Do

- The Leader reads the first problem aloud. Team members discuss strategies and methods for solving the problem, but they don't actually solve it in this step.
- The Leader asks if everyone is ready to solve the problem. If some members are not ready, continue discussing the problem. When everyone is ready, all team members take out their pencils and solve the problem on their own. *Big talking while writing!*
- After everyone solves the problem and records their own answer, they place their pencils back into the recharger.
- Rotate Leaders for each problem, and repeat steps 1 - 3. Be sure to discuss each problem with the group before solving it and recording the answer on your own.


Recharger Rules
Pencils In = Talking
Pencils Out = No Talking

Free!

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Use Math Vocabulary Fluently

Recharge & Write (Math Problem Solving) 4



Name _____

Daily Math Puzzlers

Try to solve each problem **on your own**. Show your work, using numbers, pictures, words, or symbols. We will discuss the problems together and correct them in class.

<p>1. Pablo has 16 socks in his drawer. There are 6 black socks and the rest are white. How many pairs of each color does he have?</p> <p>Answer: Black _____ White _____</p>	<p>2. Mr. Dage bought 2 pumpkins. The larger one weighs twice as much as the smaller one. If the small one weighs 7 pounds, how much do they weigh together?</p> <p>Answer: _____</p>
<p>3. Bill and his friends bought a pizza. They eat it into 8 slices. If they each ate 2 slices, what fraction of the pizza did each person eat?</p> <p>Answer: _____</p>	<p>4. Capsules are sold in packages of 3. If John needs to buy 24 capsules for a class party, how many packages should he buy?</p> <p>Answer: _____</p>

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Use Math Vocabulary Fluently

Summer Conference 2016

Presented by Laura Candler and Pat Calfee
Virginia Beach, VA - July 28 & 29



- Math Toolkit: Engaging Strategies for Success
- Literacy Toolkit: Engaging Strategies for Success



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Powerful Strategies for Building Math Vocabulary

Webinar Resources Page

Thanks for attending my webinar! I've loaded this page with freebies, games, and resources to make it easy to help kids build their math vocabularies. If the replay is live, I'll add a link below.

Webinar Giveaway Deadline - 3 pm EDT

If you'd like to enter the giveaway for the **Math Vocabulary Bundle** and/or the **Factorial Giveaway** for \$10 worth of teaching resources, please fill out this [Google User Form](#) before 3 pm EDT. I'll choose a winner at that time and email you. If you happen to win the bundle and you've already purchased it, you can choose up to \$40 worth of resources from my store.

Great Resources!

