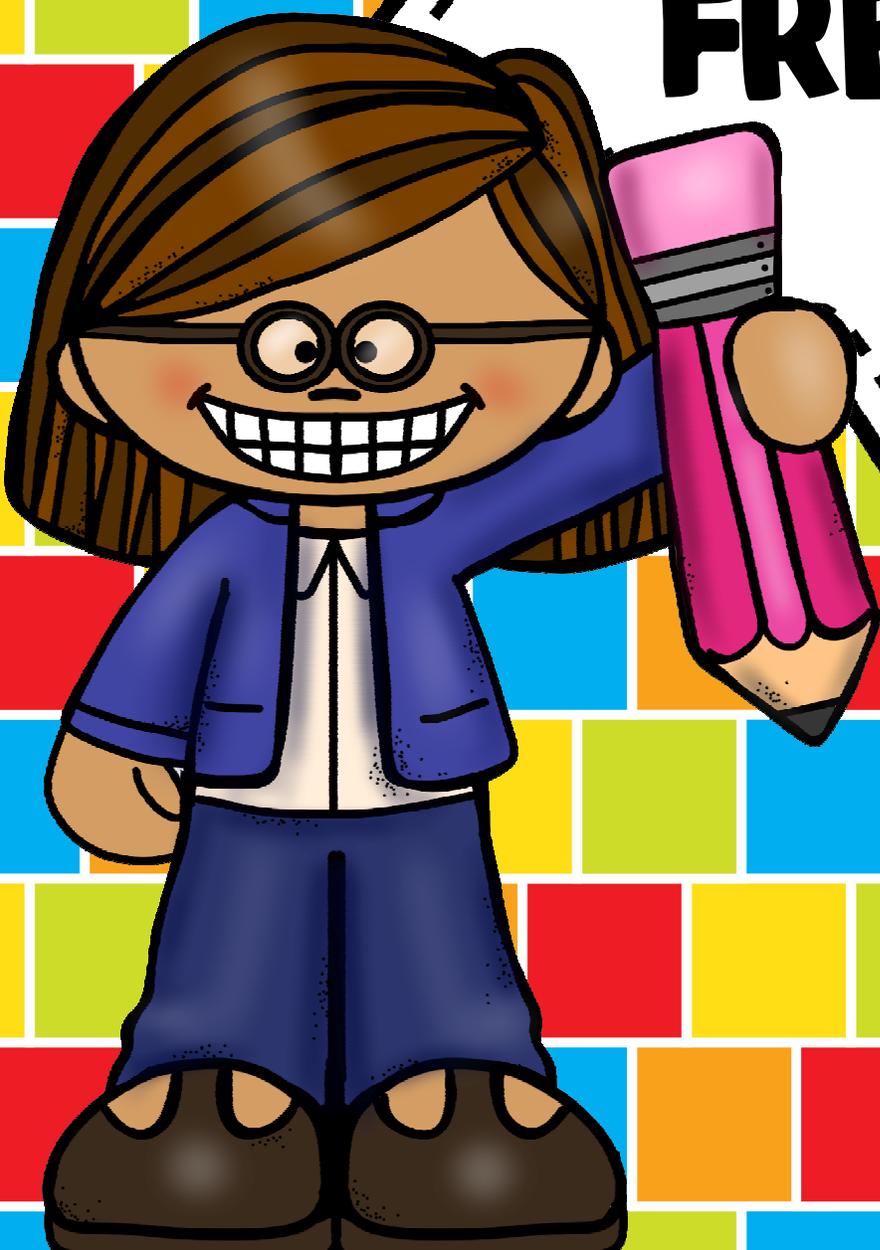




**Logic
Puzzles
FREEBIE**



**Includes
Instructions!**

By: Carrie Whitlock

How Do Logic Puzzles Work?

Logic puzzles use a grid to help keep track of your deductive reasoning as you read the clues. You use an "O" to show a match or something you know, and an "X" to show something you know doesn't go together. Let's take a look at how this works!

Let's use these clues to figure out what everyone's favorite fruit is!

Clues:

- one of the girls likes blackberries the best.

We can assume that Patricia and Sallie are the only girls, so we need to put an "X" for each of the boys.

	apples	oranges	blackberries	mangos	watermelons
Brent			X		
Ryan			X		
Patricia					
John			X		
Sallie					

	apples	oranges	blackberries	mangos	watermelons
Brent		X	X		
Ryan		X	X	X	
Patricia		X			
John	X	O	X	X	X
Sallie		X			

- Ryan doesn't care for mangos, and John loves oranges!

Here, we know to put an "X" for Ryan and mangos, and we need to put a "O" for John and oranges, which means we need to put "X"s for all the other fruits for John, and "X"s for all the other people in the orange column.

Every time you put a "O" you must fill the rest of that row AND column with "X"s! When doing a larger puzzle with multiple grids, only fill in the rows and columns in that small grid. There should be bold lines to show you where that small grid stops!

3. Sallie loves mangos, but Brent doesn't like watermelon.

Here, we need to put an "O" for Sallie and mangos, so we fill those rows and columns with "X"s. We need to put a "X" for Brent and watermelon.

Now, that leaves Brent with only apples. That means we need to put a "O" there since that is the only possibility left! Remember to fill in the columns and rows when you put a "O" anywhere!

But wait! Now Patricia is the only person left for blackberries, so put an "O" for her and blackberries, and fill that row in with "X"s.

Now we are left with only ONE place, Ryan and watermelon. So, we must put a "O" there since there are only "X"s in that row and column!

	apples	oranges	blackberries	mangos	watermelons
Brent	O	X	X	X	X
Ryan	X	X	X	X	O
Patricia	X	X	O	X	X
John	X	O	X	X	X
Sallie	X	X	X	O	X

With larger grids, you do the same thing with the "X"s and "O"s! However, remember to only fill in the smaller grid you are in when filling a column or row with "X"s. See the bold lines? (arrows) This shows you where the grids are separated.

	Mashed Potatoes	Spicing	cranberry Sauce	corn	Green Beans	Pumpkin Pie	Brownies	Apple Pie	Lemon Bars	cookies
carrie										
Tyler										
Sarah										
Katelyn										
Jessica										
Pumpkin Pie										
Brownies										
Apple Pie										
Lemon Bars										
cookies										

oh, and HAVE FUN! Logic puzzles can be a lot of fun and a great way to exercise your brain!

A Note about Larger Grids:

With larger grids, you do the same thing with the "X"s and "O"s! However, remember to only fill in the smaller grid you are in when filling a column or row with "X"s. See the bold lines? (arrows) This shows you where the grids are separated.

	Mashed Potatoes	Stuffing	cranberry Sauce	corn	Green Beans	Pumpkin Pie	Brownies	Apple Pie	Lemon Bars	cookies
Carrie										
Tyler										
Sarah										
Katelyn										
Jessica										
Pumpkin Pie										
Brownies										
Apple Pie										
Lemon Bars										
cookies										

Also, remind your students that they must use deductive reasoning. This means using what they know is true or what they know isn't true to figure out other facts.

For instance, with larger grids, you need to pay attention when you put a "O" because you need to then check for possible things to match.

For example, in the puzzle above, let's say Sarah's side was corn. If corn already had an "X" for apple pie, then Sarah too would need an "X" on apple pie since we know she ate the corn, and the person who ate the corn didn't eat apple pie!

on a side note, this link has a great tutorial on logic puzzles as well!
<https://www.pennydellpuzzles.com/upload/documents/How%20to%20Solve%20Logic%20Problems.pdf>

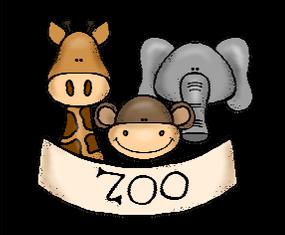
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Zoo Trip Logic Puzzle

Xavier and his four friends are all in a group for the zoo field trip. Each student in the group was assigned a different animal to investigate and draw on the trip. Using the clues, can you figure out what animal each child is supposed to investigate?

Clues:

1. one of the girls was So happy to have the King Cobra!
2. Stephanie didn't have the tree frog, and Kim and Xavier helped the person with the penguin find their information.
3. Jennifer's giraffe drawing was great.
4. The boys had the frog and the penguin.
5. Two of the girls thought it was funny their animals started with the first letter of their names!

	Scarlet Macaw	King Cobra	Gentoo Penguin	Tree Frog	Masai Giraffe
Kim					
Jennifer					
Xavier					
Stephanie					
Greg					

*Xavier and Greg are boys, the rest are girls!

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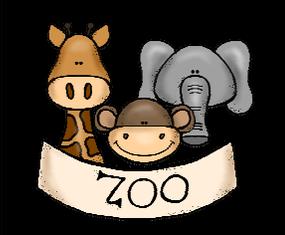
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Stephanie					
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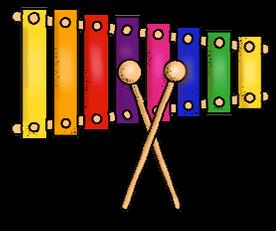
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Musical Organization Logic Puzzle

Mrs. Dennis' music closet was getting very messy. She asked five students to each organize a certain type of musical instrument. Using the clues, can you figure out which instrument each student was in charge of?

Clues:

1. Either Amy or Lucas organized the bongo drums.
2. Paul carefully stacked the xylophones.
3. one of the girls put away recorders.
4. Lucas was glad he didn't have to wash the kazoots.
5. Amy accidentally dropped a cow bell when putting them in the box.

	xylophones	recorders	Bongo drums	kazoots	cow bells
Sarah					
James					
Amy					
Lucas					
Paul					

*Sarah and Amy are girls, the rest are boys.

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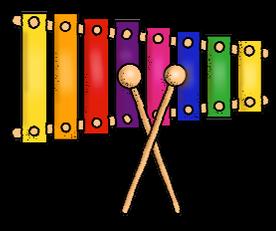
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Sarah					
James					
Amy					
Lucas					
Paul					

*Sarah and Amy are girls, the rest are boys.

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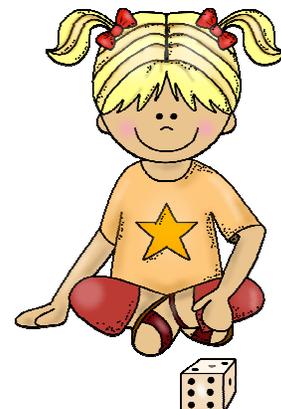
Rainy Day Games Logic Puzzle

What a week! It has rained every day this week, and you know what that means...indoor recess! Calvin and his four friends each got a turn choosing a game to play this week. Using the clues below, can you determine which game each person chose and the day it was played?

Clues:

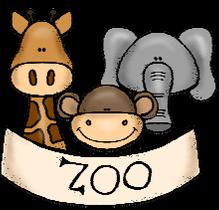
- Hailie chose her game on a day that started with "T," but Brianna didn't.
- one of the boys wanted to play "Millionaire," but not on the first two days.
- "Go Fish" was played on a Wednesday, but not at Alexa's request.
- calvin requested that they play "Sailboat" on Monday.
- "Apology" was not played on a Friday, and the marbles weren't brought out on Thursday.
- "Marble-anche" was requested by Alexa.
- Joey requested his game the day after Hailie chose hers.

	Monday	Tuesday	wednesday	Thursday	Friday	"Marble-anche"	"Go Fish"	"Apology"	"Millionaire"	"Sailboat"
calvin										
Joey										
Hailie										
Brianna										
Alexa										
"Marble-anche"										
"Go Fish"										
"Apology"										
"Millionaire"										
"Sailboat"										



*calvin and Joey are boys, the rest are girls!

Key Zoo Trip Logic Puzzle



	Scarlet Macaw	King cobra	Gentoo Penguin	Tree frog	Masai Giraffe
Kim	X	O	X	X	X
Jennifer	X	X	X	X	O
Xavier	X	X	X	O	X
Stephanie	O	X	X	X	X
Greg	X	X	O	X	X

Kim - King cobra
 Jennifer - Masai Giraffe
 Xavier - Tree frog
 Stephanie - Scarlet Macaw
 Greg - Gentoo Penguin

Musical Organization Logic Puzzle:



	xylophones	recorders	Bongo drums	kazoos	cow bells
Sarah	X	O	X	X	X
James	X	X	X	O	X
Amy	X	X	X	X	O
Lucas	X	X	O	X	X
Paul	O	X	X	X	X

Sarah - recorders
 James - kazoos
 Amy - cow bells
 Lucas - bongo drums
 Paul - xylophones

Key

Rainy Day Games Logic Puzzle



	Monday	Tuesday	wednesday	Thursday	Friday	"Marble-anche"	"Go Fish"	"Apology"	"Millionaire"	"Sailboat"
calvin	O	X	X	X	X	X	X	X	X	O
Joey	X	X	X	X	O	X	X	X	O	X
Hailie	X	X	X	O	X	X	X	O	X	X
Brianna	X	X	O	X	X	X	O	X	X	X
Alexa	X	O	X	X	X	O	X	X	X	X
"Marble-anche"	X	O	X	X	X					
"Go Fish"	X	X	O	X	X					
"Apology"	X	X	X	O	X					
"Millionaire"	X	X	X	X	O					
"Sailboat"	O	X	X	X	X					

Person	Day	Game
calvin	Monday	"Sailboat"
Joey	Friday	"Millionaire"
Hailie	Thursday	"Apology"
Brianna	wednesday	"Go Fish"
Alexa	Tuesday	"Marble-anche"

Note to the Teacher

Thank you so much for downloading my "Logic Puzzles FREEBIE!" I hope your kiddos have as much fun as I do when I do these. I've loved these since I was first introduced to them in 2nd grade, and still do them now!

Make sure to go over the instructions on page 2-4!
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carrie.whitlock@gmail.com

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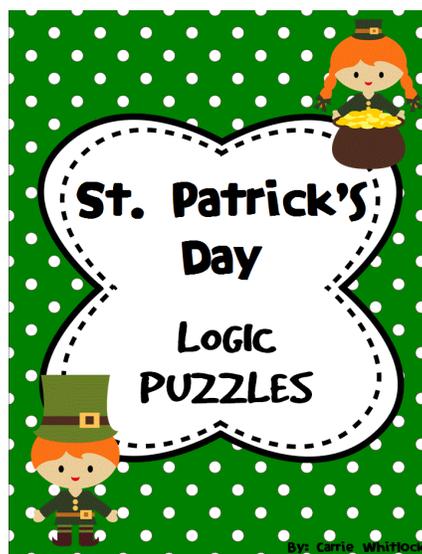
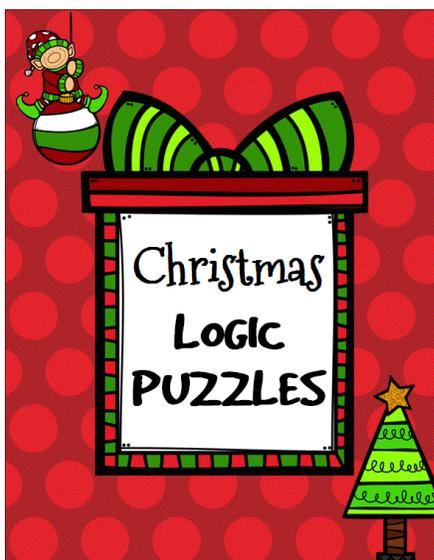
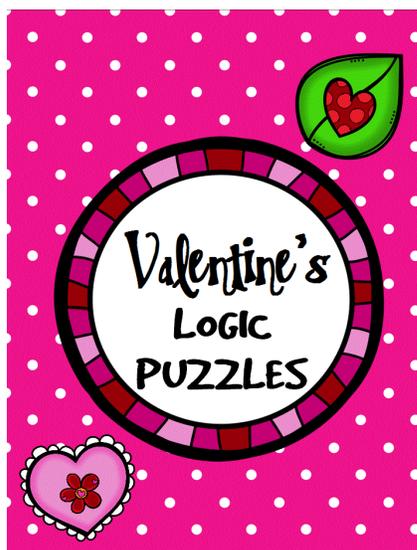
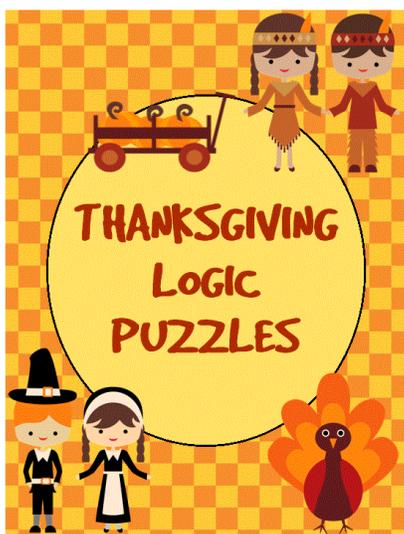
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Thanks and Happy Teaching!,
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