



“Tricky Brains” (Brain Teasers)

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Objectives:

- Demonstrate how we use different parts of our brain in our daily lives by playing a variety of games and brain teasers

Materials and Supplies Needed:

Item	Quantity	Notes (Vendor, price, purpose, etc.)
Original Memory Game	1	Explain Hippocampus; Play the Original Memory Game by Kaplan Toys \$13.95/ea Item # 9114 http://www.kaplantoys.com/store/trans/productDetailForm.asp?CatID=product&PID=9114&WT.mc_id=froogle&WT.srch=1
Sudoku	1	Explain Frontal Lobe; make sure to also have templates
Metal Puzzles	A few	Explain Frontal Lobe \$10~\$20 each. Can be purchased here: http://www.amazon.com/gp/top-rated/toys-and-games/166405011 http://www.brilliantpuzzles.com/Metal_Puzzles.html
Riddles		Explain Wernicke’s and Broca’s areas http://www.rinkworks.com/brainfood/p/riddles1.shtml
Informational Printouts	Several copies	Printouts with pictures of various brain regions and explanation of how they relate to the games

Background Information / Activity Explanation:

Games and puzzles require us to use different parts of our brain to successfully “win” or complete them. Also, playing riddles and puzzles keeps our minds active and healthy. By allowing participants to play a variety of games after explaining to them which parts of the brain they may be using during that task, we hope to associate a practical example with explanations of the function of brain regions.

Procedures:

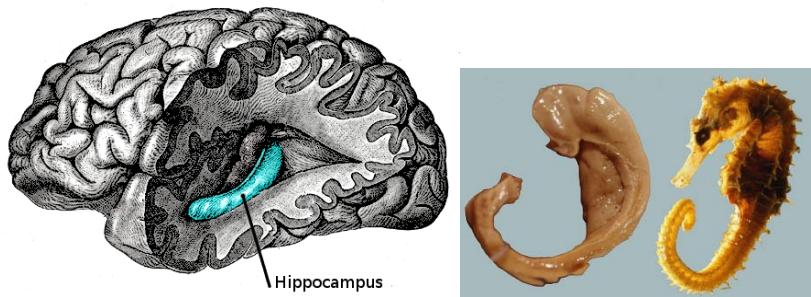
Before the kids play each game, tell them about the brain region they may use while playing that game. Based on their age more or less information can be given. For example, for the Original Memory Game, for a young child you can just tell them that the hippocampus helps them remember things. For an older child you can tell them about the difference between long term vs. short term memory or declarative vs. procedural memory.

Additional Information (advice, spiel, links, figures, etc.)

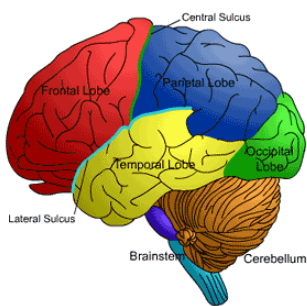
See below for the spiel and example riddles.

Spiel

To create memories we use a part of the brain called the hippocampus. The hippocampus is involved in memories for events and facts (declarative and semantic memories, respectively) but not for procedures (like riding a bike). In the Original Memory Game, you will likely use your hippocampus!

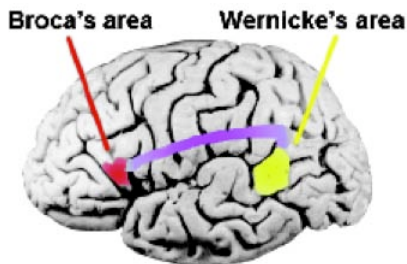


The frontal lobe is involved in different types of problem solving. It helps us think and plan ahead before we do something (action planning). You will probably use your frontal cortex when playing Sudoku or doing a puzzle!



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In order to speak and read in complete sentences that make sense we use two areas of the brain called Wernicke's and Broca's areas. These areas will communicate with other regions like the frontal lobe to help you solve these word games and riddles!



Riddles

1.	What does this mean? I RIGHT I Right between the eyes
2.	What does this say? XLR8 accelerate
3.	What does this say? QTPI cutie pie
4.	What does this say? TOKEEPUCH Keep in touch
5.	What does this say? esgg sgeg gegs gsge Scrambled eggs
6.	What does this say? TOIMWN I'm in town
7.	Look closely, what does this say? 10AC Tennessee
8.	What does this say? yyuryyubicuryy4me Too wise you are, too wise you be. I see you are too wise for me.
9.	What does this say? R/e/a/d/i/n/g/ Reading between the lines
10.	What does this say? arupms Up in arms.
11.	What does this say? MEREPEAT Repeat after me.
12.	If it takes six men one hour to dig six holes, how long does it take one man to dig half a hole? There is no such thing as half a hole.
13.	Two men play five complete games of checkers. Each man wins the same number of games. There are no ties. How? The two men were not playing against each other.
14.	A farmer has seventeen sheep. All but nine of them die. How many sheep does he have left? Nine.
15.	How many seconds are in a year? 12: January 2, February 2, March 2, April 2, ...
16.	If 3 peacocks lay 5 eggs in 8 days, how many peacocks will lay 29 eggs in 76 days?

	Peacocks do not lay eggs, peahens do.
17.	You walk across a bridge and you see a boat full of people yet there isn't a single person on board. How is that possible? All the people on the boat are married.
18.	How many apples can you fit into an empty box? One, then it isn't empty anymore.
19.	The red house is on one side and the blue is on the other, where is the white house? In Washington DC.
20.	What five letter word becomes shorter when you add two letters to it? The word short.
21.	You are running in a street marathon and you overtake the person in 2nd place. What place are you now? Second.
22.	A boy was rushed to the hospital emergency room. The ER doctor saw the boy and said, "I cannot operate on this boy. He is my son." But the doctor was not the boy's father. How could that be? The doctor was his mom.
23.	How can you take 9 toothpicks and make ten without breaking the toothpicks? TEN (every line making the letters in the word ten is one toothpick. There are nine lines you draw when writing ten, so there are 9 toothpicks making TEN)
24.	You throw away the outside and cook the inside. You eat the outside and throw away the inside. What did you eat? Corn on the cob.
25.	You walk into a room with a match. In the room there is a stove, a heater and a candle. What do you light first? The match.
26.	Every day, a cyclist crosses the border between Spain and France carrying a bag. No matter how much custom officials investigate him, they do not know what he is smuggling. Do you? Bicycles.
27.	A woman walks into a restaurant and asks the manager for a glass of water. The manager aims a gun at her, the woman was pleased, said thank you and left. Why? The woman had hiccups and the manager gave her a shock to scare away her hiccups!

28.	<p>There is a man on an island prison, he cannot swim. One day he escapes using nothing but himself. There is no bridge. How does he do it?</p> <p>He escapes in the winter when the body of water surrounding the island is frozen. He simply walks away.</p>
29.	<p>A man was speeding and ran through a stop sign. Two police officers saw him and just sat there. Why?</p> <p>He was running.</p>
30.	<p>A small defenseless animal lays on the ground in the heat of the sun. Suddenly, it is pulled up and beaten with sticks. The animal's body is broken, but no one is punished for the crime. Why not?</p> <p>It was a piñata.</p>
31.	<p>Why is it illegal to bury a man living in South Carolina in North Carolina?</p> <p>It is illegal to bury a person while they are still living.</p>
32.	<p>Two people are in a barn. Ten cats follow them in. How many feet are in the barn now?</p> <p>There are four feet in the barn, cats have paws, not feet.</p>
33.	<p>Is it illegal to marry your widow's sister?</p> <p>Yes, because dead people can't get married.</p>
34.	<p>A girl is sitting in a house at night that has no lights on at all. There is no lamp, no candle, nothing. Yet she is reading. How?</p> <p>The woman is blind and is reading braille.</p>
35.	<p>A boy is walking around in a carnival and he sees a single man in a booth. He walks up to the man and asks what the booth is for. "Well," says the man, "If I can write your exact weight on this slip of paper, I pay you \$20. If I get it right, you pay me \$20." The boy looks around, and seeing no scales, agrees. 5 minutes later, the man has gotten \$20 from the boy. How?</p> <p>The man wrote 'your exact weight' on a piece of paper.</p>
36.	<p>Two trains are on the same railroad track; one is headed east the other west, they both leave the station at 1:00. and are travelling at the same speed. Yet they didn't crash into each other. How can this be?</p> <p>They went at the same time but one went at 1:00 in the afternoon and one went at 1:00 in the morning.</p>
37.	<p>A murderer is condemned to death. He has to choose among three rooms. The first is full of raging fires, the second is full of assassins with loaded guns, and the third is full of lions that haven't eaten in 3 years. Which room is safest for him?</p> <p>The third. Lions that haven't eaten in three years are dead.</p>
38.	<p>An electric train is going 40 mph north, the wind is blowing 60 mph south. Which way is the train's smoke blowing?</p>

	The train is electric, therefore there would be no smoke.
39.	<p>Pinkie Pinkerton lived in a pink one story house on Pink Street. The walls were pink, the roof was pink, the carpet was pink, the flowers were pink, the pictures were pink, the furniture was pink, the bathroom was pink, her stuff was pink, the yard was pink, even her cat was pink. EVERYTHING was pink. So what colour were the stairs in Pinkie Pinkerton's house?</p> <p>There are no stairs in a one story house.</p>
40.	<p>The fishmonger is 1.8 meters tall. He wears size 8 shoe and wears XXL shirts. What does he weigh?</p> <p>Fish.</p>
41.	<p>A red house is made from red bricks. A blue house is made from blue bricks. A yellow house is made from yellow bricks. What is a green house made from?</p> <p>Glass.</p>
42.	<p>A rooster lays on egg on the top of the roof. Which way does it roll?</p> <p>Roosters don't lay eggs.</p>
43.	<p>What question can never be answered yes?</p> <p>Are you asleep?</p>
44.	<p>What has six eyes, but cannot see?</p> <p>The three blind mice.</p>
45.	<p>A man drove to a hotel and as soon as he got there he was bankrupt. Explain.</p> <p>The man was playing Monopoly and when he rolled the dice he landed on a property he could not afford to pay the rent on.</p>
46.	<p>Before Mount Everest was discovered, what was the highest mountain in the world?</p> <p>Mount Everest.</p>
47.	<p>A tennis ball has rolled its way down into a hole. This particular hole is extremely deep and has a sharp bend in the middle, making the ball impossible to retrieve by hand. The ground around the hole is made of hard clay, so digging the ball out isn't an option. What could you use to get the ball out?</p> <p>Water. Pour water in the hole and it will float to the top for you to get.</p>
48.	<p>There is a fire in a 12 storey building. A man panics and jumps out of the window. How does he survive?</p> <p>He jumped from a first floor window.</p>
49.	<p>To whom do all men take off their hats?</p> <p>The barber.</p>

50.	What 9 letter English word is still a word each time you take away a letter? Startling, starting, staring, string, sting, sing, sin, in, I.
51.	A man went to sleep and he turned off the light. The next day when he woke up there were many dead people due to his actions the night before? The man was a lighthouse keeper and when he turned the lights off the boats couldn't see and crashed into the rocks.
52.	What can you catch but not throw? A cold.
53.	How can FIVE minus two equal 4? Roman Numerals. FIVE take away F and E which leaves IV which is 4 in Roman Numerals.
54.	A boat has a ladder that has 6 rungs that are 12 inches apart. The tide moves up 12 inches every 15 minutes, it is now one hour until high tide. The very edge of the ladder is in the water. How many rungs will be under water all the way at the highest point of high tide? The boat moves and up and down with the tide.
55.	Which statement is true out of the following? One statement here is false. Two statements here are false. Three statements here are false. The second statement.
56.	What do you call a frog with no legs? A tadpole.
57.	Scientists have proven that one side of a cat has more hair. Which side is it? The outside.
58.	A man walked all day long but only moved 2 feet. How is this possible? That was all he had.
59.	What can you keep but cannot share and once you share it, you can't keep it anymore? A secret.
60.	What are four things that have an 'eye' but cannot see? A needle, a potato, the alphabet and a hurricane.
61.	What moves forwards and backwards but has no legs, it cannot talk, it cannot walk, it doesn't slither or crawl across the floor either. It comes in different shapes, sizes and colors. What is it? A door.