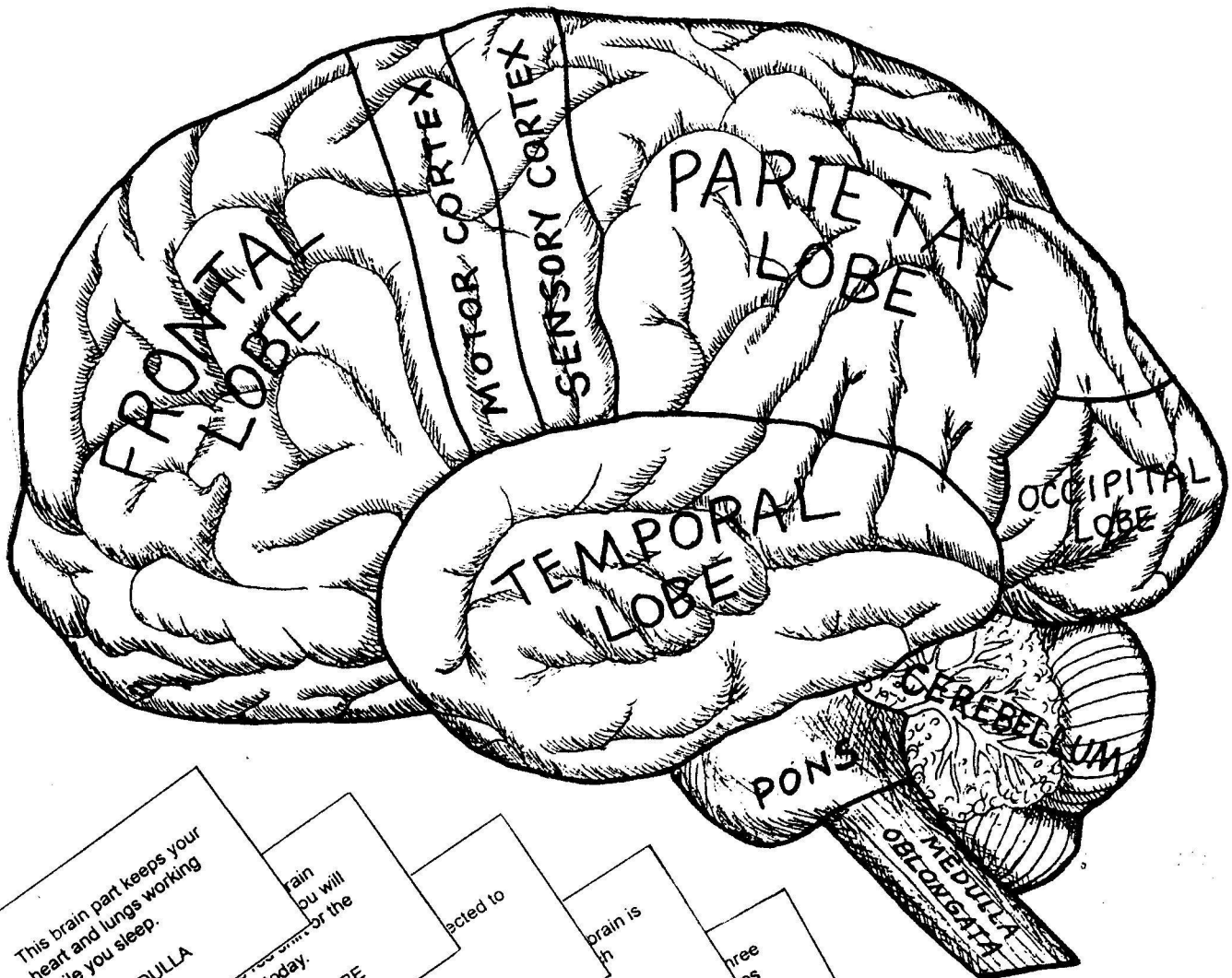




-ECTOMY

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A GAME ABOUT THE PARTS OF THE BRAIN



This brain part keeps your heart and lungs working while you sleep.
MEDULLA

Where the cerebrum meets the brain you will wear the blue shirt today.
FRONTAL LOBE

ected to
OCCIPITAL

brain is in
center is located.
TEMPORAL LOBE

three ps body
is in space.
PARIETAL LOBE

2- 4 PLAYERS

Grades 4-8

“-ECTOMY”

A GAME ABOUT THE PARTS OF THE BRAIN

When surgeons do any kind of “-ectomy” that means they take something out of the body. An appendectomy is when you have your appendix removed. A tonsillectomy is when you have your tonsils out. In this game, you might have a lobe of your brain removed. But don’t worry-- you can win it back again by answering questions about the brain!

Each player will need a copy of the “-Ectomy” board, and a copy of the labeled brain parts page. Each group that is playing together will need one copy of the set of cards.

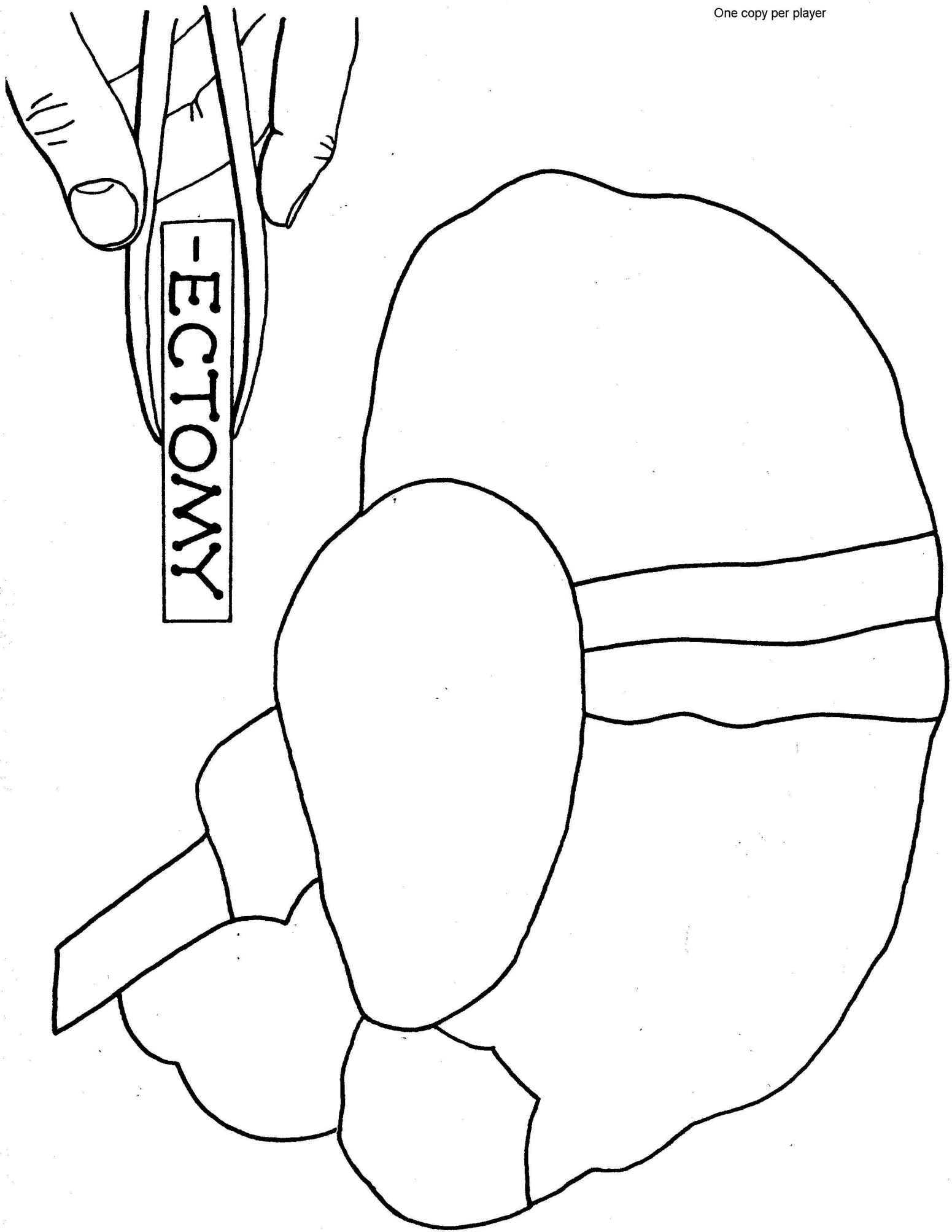
Cut apart the playing cards, shuffle them and put them face down in a pile. Cut apart the sections of the labeled brains into eight separate lobes. Be careful to cut right on the lines so that the pieces will be as interchangeable as possible. (To make the pieces extra durable, you could laminate them, or adhere them to the sticky side of sticky-back craft foam sheets.) Put everyone’s brain lobes into a communal pile. Each player should have their own empty brain board in front of them.

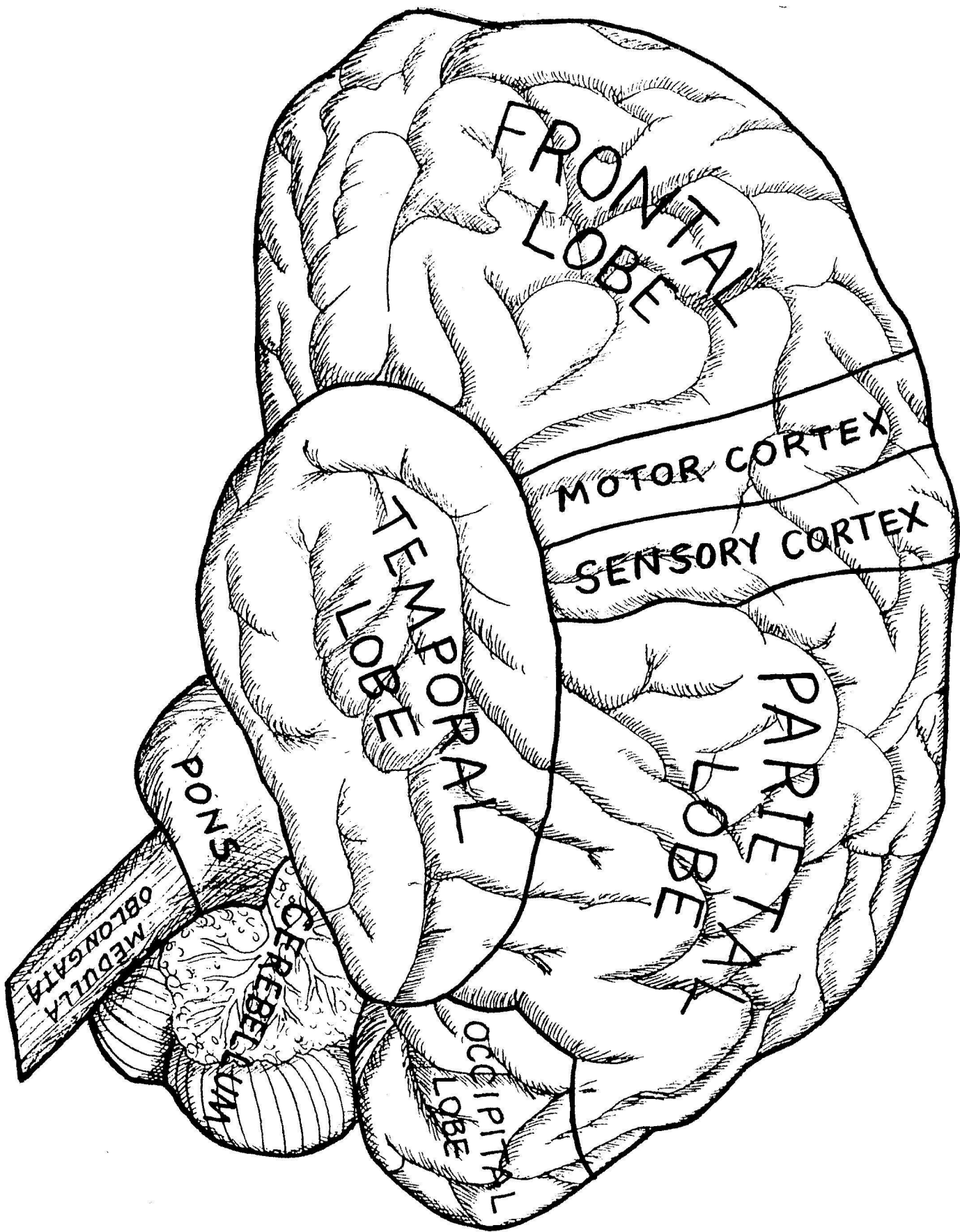
The first player draws a card without looking at it, and gives it to the player on his left, who then reads the question to the first player. If the first player gives the correct answer, he earns that brain part. He selects that part from the pile and puts it where it belongs on his own board. The quiz card is then returned to the bottom of the pile. If a player draws an “-Ectomy” card, he follows the directions on the card, then returns it to the bottom of the pile. If the player draws an “-Ectomy” card for a part he does not have, he simply returns the “-Ectomy” card to the bottom of the pile and takes the next top card.

If a player draws a card that offers a lobe he already has, he answers the question anyway. If he answers correctly, he has two options. The first option is to take the extra lobe and then trade with someone else who needs it and who happens to have a lobe that he needs. For instance, if player one wins an extra temporal lobe and already has one, but needs a frontal lobe, he looks to see if another player needs a temporal lobe and has a frontal lobe. Player two has a frontal lobe but no temporal lobe. Player one may take the player two’s frontal lobe but gives him the temporal lobe he needs in return. The second option is to draw another card and answer another question. The player may continue to draw cards and answer questions, as long as he answers correctly, until he gets a part he does not have.

The first player to get all his brain parts wins.

-ECTOMY





Make one copy of this page for each player.

Use card stock. Cut apart the brain sections on dark lines.

<p>You may receive any brain part if you can answer this question: What stops most chemicals from entering the brain?</p> <p>BLOOD-BRAIN-BARRIER</p>	<p>You may receive any brain part if you can answer this question: Which side of the brain is more creative and musical?</p> <p>RIGHT</p>	<p>You may receive any brain part if you can answer this question: Which side of the brain is more logical?</p> <p>LEFT</p>
<p>You may receive any brain part if you can answer this question: Which side of the brain uses words and symbols to name things?</p> <p>LEFT</p>	<p>You may receive any brain part if you can answer this question: Which side of the brain is good at drawing and sculpting?</p> <p>RIGHT</p>	<p>You may receive any brain part if you can answer this question: Which side of your brain controls the left side of your body?</p> <p>RIGHT</p>
<p>This lobe of your brain is right under the "crown" of your head, where your hair sprouts out from a central point.</p> <p>PARIETAL</p>	<p>This part of your brain allows you to know what your body parts are doing even when you have your eyes closed.</p> <p>PARIETAL</p>	<p>This part of your brain is where your coughing and sneezing reflexes are located.</p> <p>MEDULLA</p>
<p>-ECTOMY</p> <p>Remove your parietal lobe</p>	<p>-ECTOMY</p> <p>Remove your cerebellum</p>	<p>-ECTOMY</p> <p>Remove your motor cortex</p>
<p>-ECTOMY</p> <p>Remove your frontal lobe</p>	<p>-ECTOMY</p> <p>Remove your temporal lobe</p>	<p>-ECTOMY</p> <p>Remove your occipital lobe</p>
<p>-ECTOMY</p> <p>Remove your medulla</p>	<p>-ECTOMY</p> <p>Remove your pons</p>	<p>-ECTOMY</p> <p>Remove your sensory cortex</p>

<p>You may receive any brain part if you can answer this question: About how much does a human brain weigh?</p> <p>1.5 KG (3 POUNDS)</p>	<p>You may receive any brain part if you can answer this question: About how thick is the outer cortex of the cerebrum?</p> <p>1/2 CM (1/4 INCH)</p>	<p>You may receive any brain part if you can answer this question: What kind of scan is in color and can show the brain working?</p> <p>PET</p>
<p>You may receive any brain part if you can choose the correct number: How many gallons of blood does the brain receive every hour, 1, 8, 28 or 80? (8)</p>	<p>You may receive any brain part if you can answer this question: What connects the right and left sides of the cerebrum?</p> <p>CORPUS CALLOSUM</p>	<p>You may receive any brain part if you can answer this question: What is the correct name for the brain's "gray matter"?</p> <p>(CEREBRAL) CORTEX</p>
<p>This lobe of the brain is between the sensory cortex and the occipital lobe.</p> <p>PARIETAL LOBE</p>	<p>This part of the brain is between the frontal lobe and the sensory cortex.</p> <p>MOTOR CORTEX</p>	<p>If you hit the back of your head and "see stars" this is the lobe that is affected.</p> <p>OCCIPITAL LOBE</p>
<p>This part of the brain is located right at the top of the spinal cord.</p> <p>MEDULLA</p>	<p>This is part of the brain stem and is located between the medulla and the cerebrum.</p> <p>PONS</p>	<p>Some scientists say that this part of the brain is actually part of the parietal lobe because the jobs they do are so closely related.</p> <p>SENSORY CORTEX</p>
<p>This part of the brain can't function when your eyes are closed.</p> <p>OCCIPITAL LOBE</p>	<p>This part of your brain is right behind your forehead.</p> <p>FRONTAL LOBE</p>	<p>This lobe listens to music.</p> <p>TEMPORAL LOBE</p>
<p>This part of your brain could be called your "alarm clock."</p> <p>PONS</p>	<p>You may receive any brain part if you can answer this question: What is the correct name for one of the curving ridges on the surface of the brain?</p> <p>GYRUS</p>	<p>You may receive any brain part if you can answer this question: What is the main function of the hippocampus?</p> <p>MEMORY</p>

<p>This part of your brain grows rapidly and almost reaches adult size by the age of two.</p> <p>CEREBELLUM</p>	<p>This part of your brain allows you to be graceful. It coordinates your movements.</p> <p>CEREBELLUM</p>	<p>This lobe is connected to your eyes.</p> <p>OCCIPITAL</p>
<p>This part of the brain receives information from the skin.</p> <p>SENSORY CORTEX</p>	<p>This lobe of your brain is where your speech center is located.</p> <p>TEMPORAL LOBE</p>	<p>This part of your brain can sense the texture of your dog's fur.</p> <p>SENSORY CORTEX</p>
<p>This part of the brain makes the decision to move and then sends signals to the motor cortex.</p> <p>FRONTAL LOBE</p>	<p>This lobe gets a work-out when you learn a foreign language.</p> <p>TEMPORAL LOBE</p>	<p>This lobe thinks in three dimensions and keeps track of where your body is in space.</p> <p>PARIETAL LOBE</p>
<p>This part of your brain decides whether you will wear the red shirt or the blue shirt today.</p> <p>FRONTAL LOBE</p>	<p>This lobe is where your sense of smell is located.</p> <p>TEMPORAL LOBE</p>	<p>This part of your brain is the part that actually sends out the electrical signals to the muscles.</p> <p>MOTOR CORTEX</p>
<p>Your vomit reflex is located in this part of the brain.</p> <p>MEDULLA</p>	<p>This brain part wakes you up in the morning.</p> <p>PONS</p>	<p>This part of your brain works with your inner ear to give you your sense of balance.</p> <p>CEREBELLUM</p>
<p>This brain part keeps your heart and lungs working while you sleep.</p> <p>MEDULLA</p>	<p>This is the part of your brain that adds and subtracts numbers.</p> <p>FRONTAL LOBE</p>	<p>This name of this brain part means "little brain."</p> <p>CEREBELLUM</p>