BRAIN HEMISPHERE HAT

Target age group: ages 8-13

Time needed: at least 20 minutes for assembly (allow 30 minutes for younger students) plus any additional time you want to spend on coloring and/or labeling

What you will need:

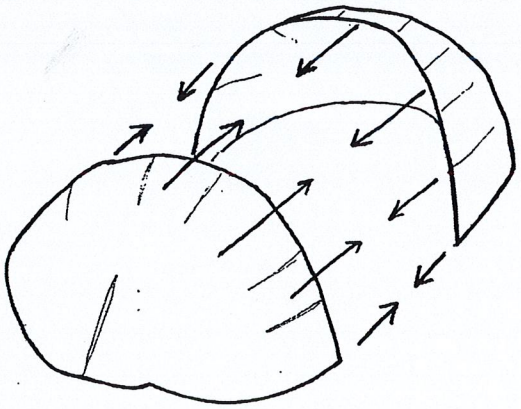
- copies of the following pattern pages printed onto heavyweight paper (card stock) if possible (if card stock is not available, go ahead and use regular paper--the hat just won't be quite as durable)
- clear tape
- white glue or glue stick if you want to avoid too much tape on the hat

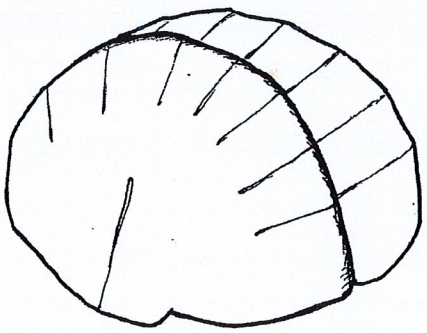
NOTES:

- If you use white glue, I recommend using clothespins or paper clips to hold the joints while they dry. If you use glue sticks I highly recommend using glue sticks intended for adults, not "school glue." Glue labeled as "washable" or "school glue" tends to be wimpy and doesn't stick nearly as well as regular glue. But if school glue is all you've got, you can probably make it work. It will just take longer for the joints to dry. (For the seam down the middle, most people choose to use tape.)
- There are both labeled and unlabeled patterns provided so that your students can do their own labeling, if you wish. With the labeled patterns, you may still want your students to color code the lobes, or trace over the words with markers or crayons. Do all coloring and labeling before you assemble the hats.
- Though two sizes are provided, the hat is designed to be as "one-size-fits-all" as possible. (It's amazing how similar head sizes are in comparison to shoe or shirt sizes.) The size of the hat can be made a little smaller by overlapping the hemispheres slightly more before taping them together. If necessary, the folds can also be overlapped, as well. Another way you could shrink the size would be to use the size reduction button on a copier and copy at about 95%.
- If you are doing this project with a class, you might want to have two or three pre-assembled hats for the students to try on before assembling their own. Make one standard size, one smaller, and maybe one even smaller if you have young students. Students who find that the smaller hats fit better will know to make adjustments during assembly.

How to assemble:

Cut out both hemispheres. Then snip in on the "V" lines. Don't snip on the dashed lines, just the solid lines. Then pull the "flaps" you have created over to their dashed lines and secure with glue or tape. After you have pulled all the flaps over to their dashed lines, it should then take on a half-round shape. To put these two halves together, simply choose one side to overlap just slightly onto the other (1/8" or less is enough, but use more if you are trying to shrink the size of the hat). Secure with tape. (If you don't want the tape to show, put the tape on the inside of the hat.)





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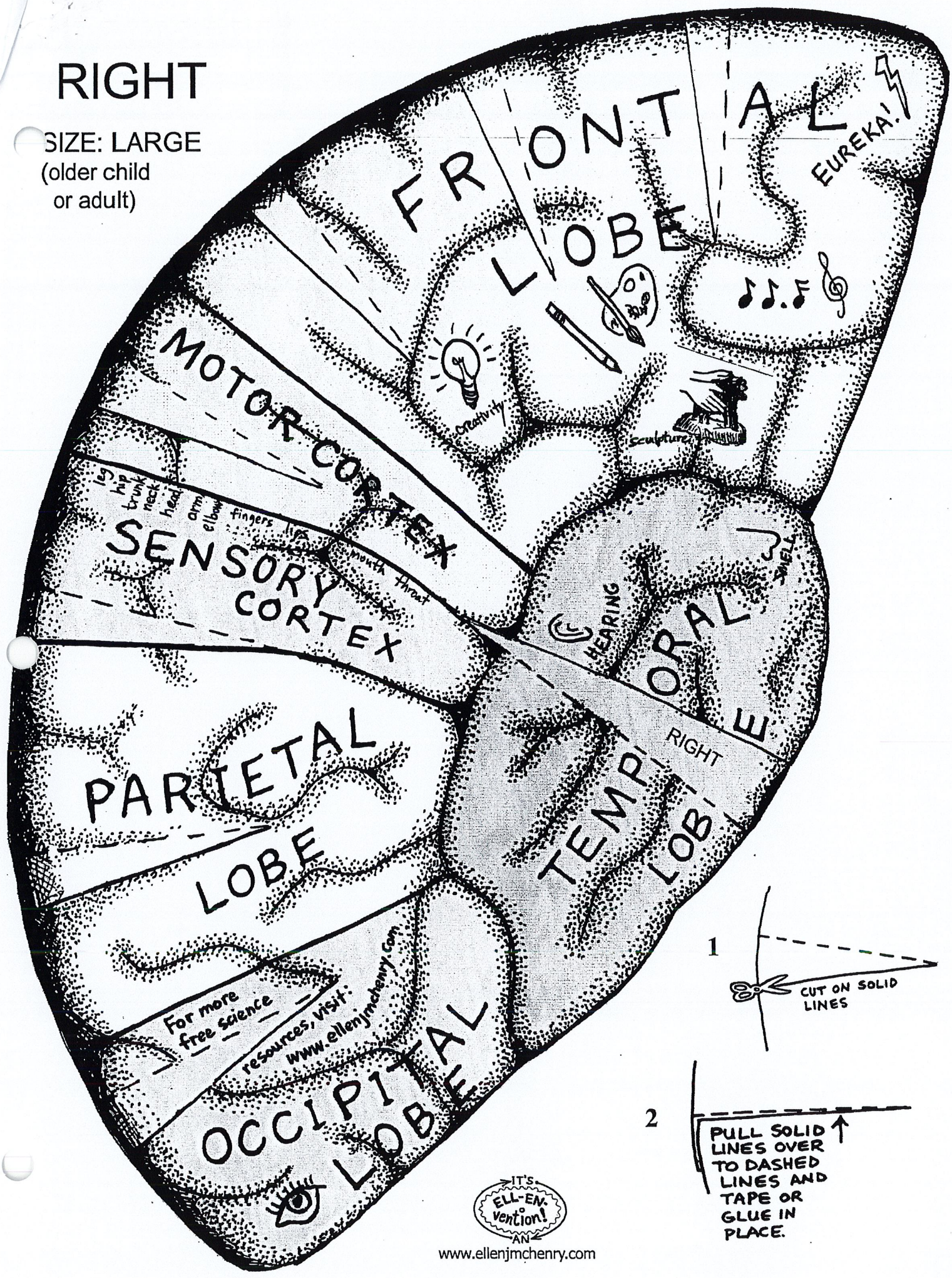
RIGHT

SIZE: LARGE
(older child
or adult)



1

CUT ON SOLID LINES

2

PULL SOLID LINES OVER TO DASHED LINES AND TAPE OR GLUE IN PLACE.

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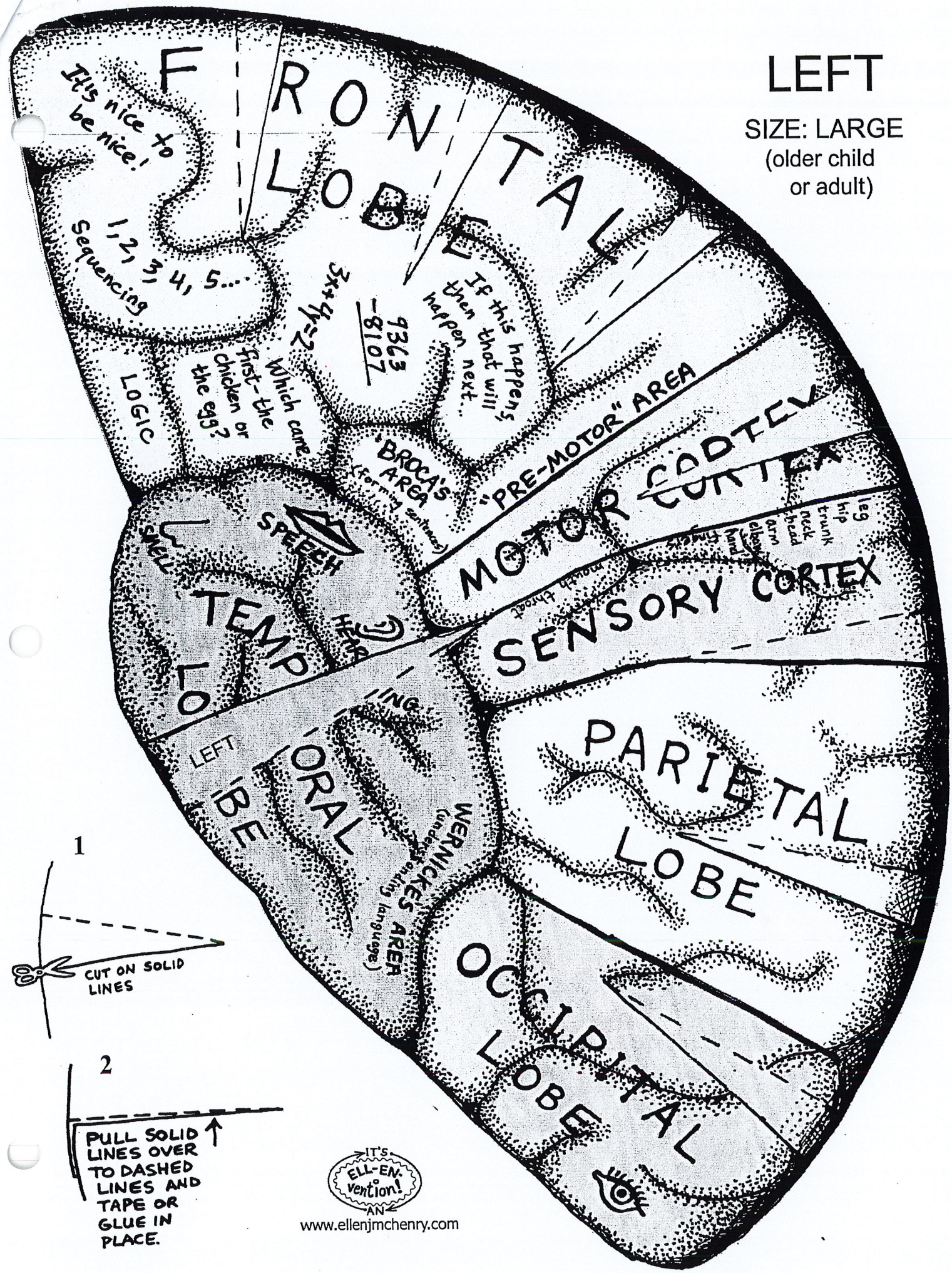
LEFT
SIZE: LARGE
(older child
or adult)
FRONTAL LOBE
It's nice to be nice!
1, 2, 3, 4, 5...
Sequencing
LOGIC
Which came first- the chicken or the egg?
3+4=?
9363
-8107
If this happens, then that will happen next.
"PRE-MOTOR" AREA
MOTOR CORTEX
leg
hip
trunk
neck
head
arm
elbow
hand
wrist
thumb
mouth
throat
SENSORY CORTEX
"BROCA'S AREA"
(forming sentences)
SPEECH
SMELL
TEMP LO
HEAR
ING
LEFT
ORAL
BE
WERNICKE'S AREA
(understanding language)
PARIETAL LOBE
OCCIPITAL LOBE
1
CUT ON SOLID LINES
2
PULL SOLID LINES OVER TO DASHED LINES AND TAPE OR GLUE IN PLACE.
IT'S ELL-EN-vention!
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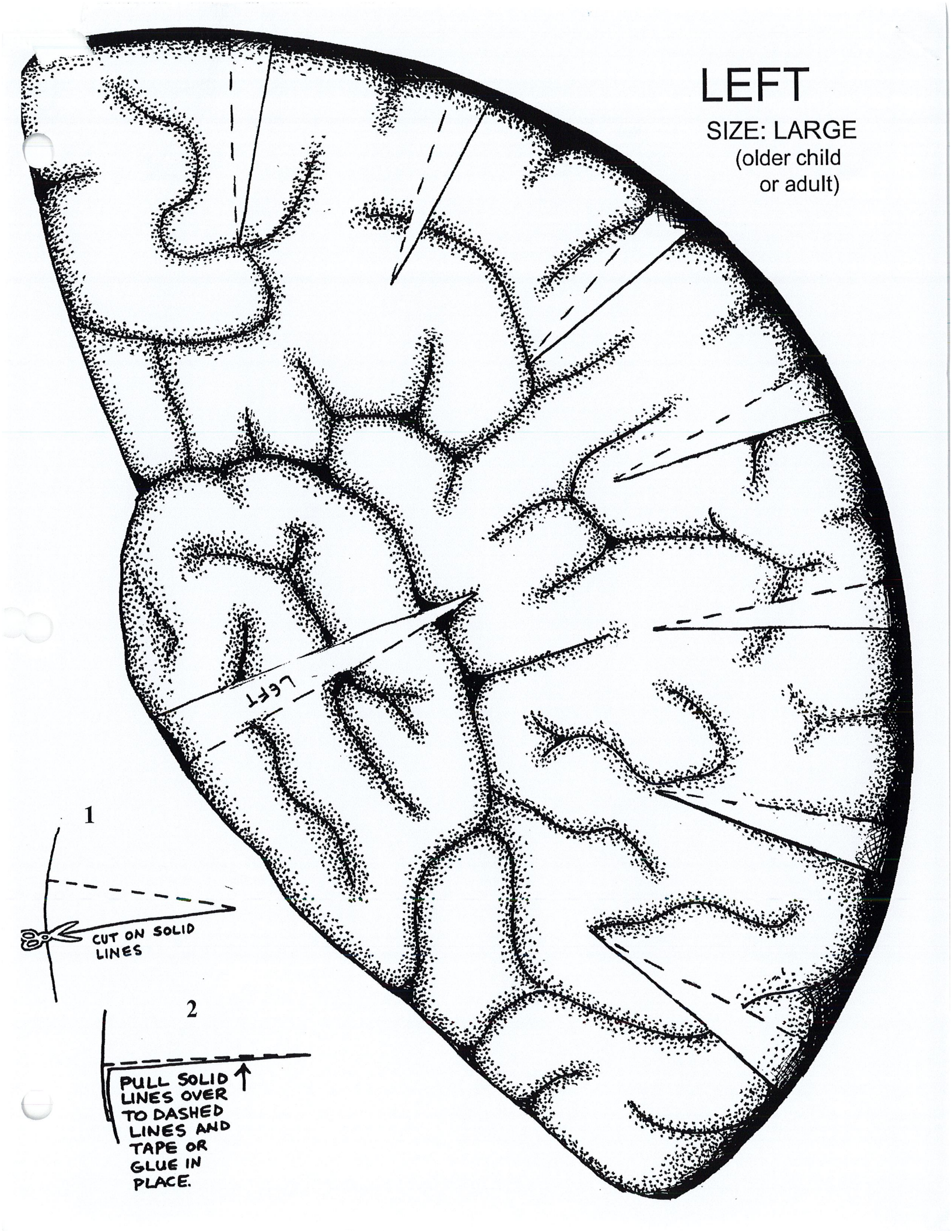
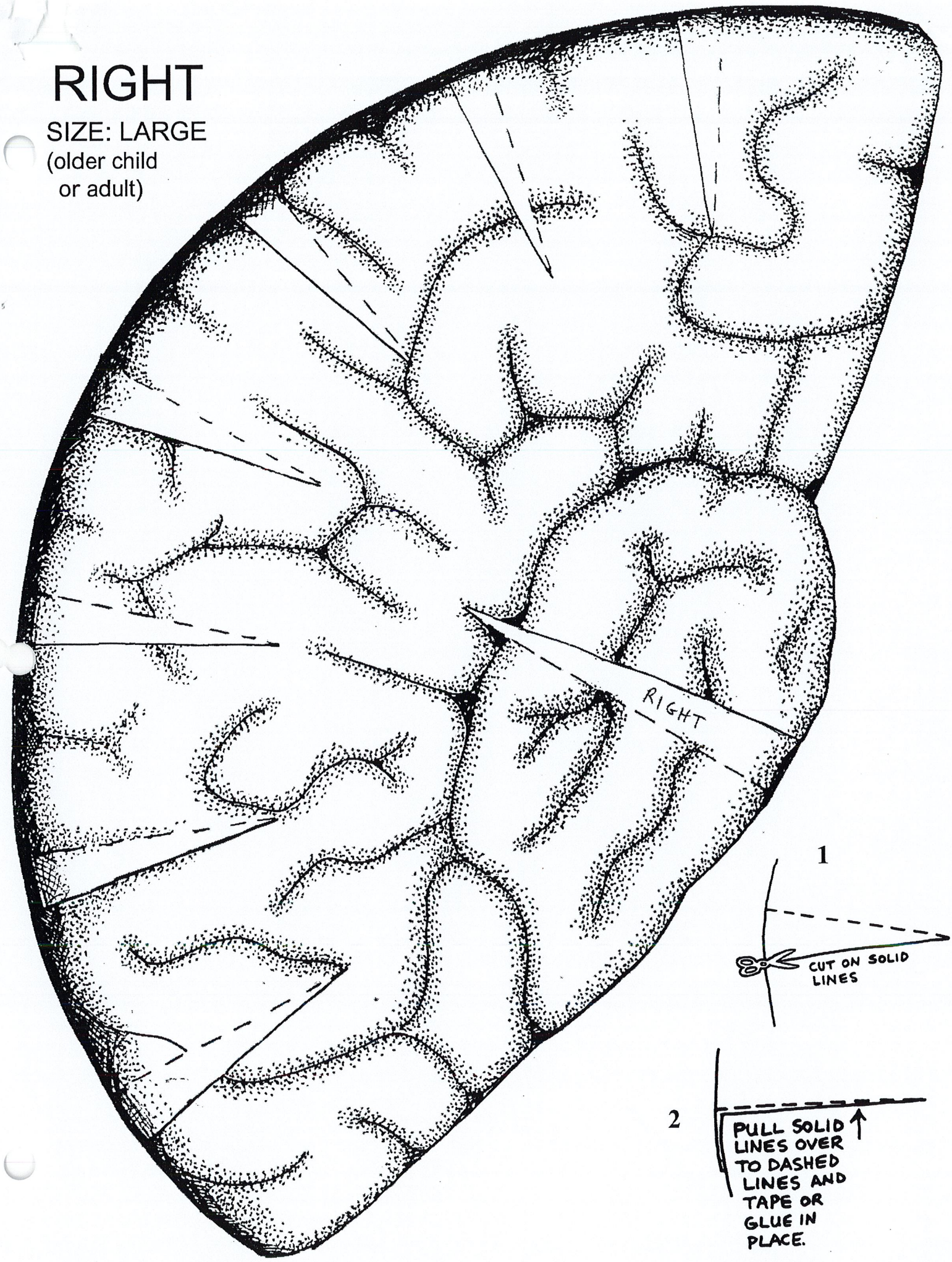

LEFT
SIZE: LARGE
(older child
or adult)
LEFT
1
CUT ON SOLID
LINES
2
PULL SOLID
LINES OVER
TO DASHED
LINES AND
TAPE OR
GLUE IN
PLACE.

RIGHT

SIZE: LARGE
(older child
or adult)



1

2