

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, we recommend using clothespins or paper clips to hold the joints while they dry. If you use glue sticks we 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.

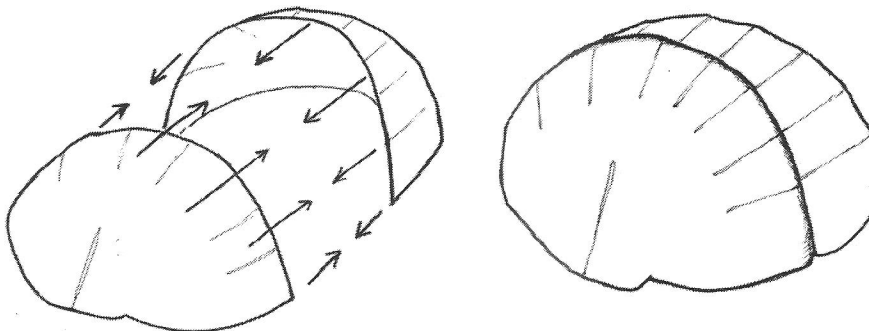
- The hat is designed to be as "one-size-fits-all" as possible. (It's amazing how similar head sizes are in comparison to shoe or shirt sizes.) The hat fits heads up to 23 inches in circumference (57 cm). The size of the hat can be made a little smaller by overlapping the hemispheres a little more before taping them together. If necessary, the folds can also be overlapped slightly more, 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. (Unless you have chosen to provide reduced sizes, in which case assembly would be the same for all hats.)

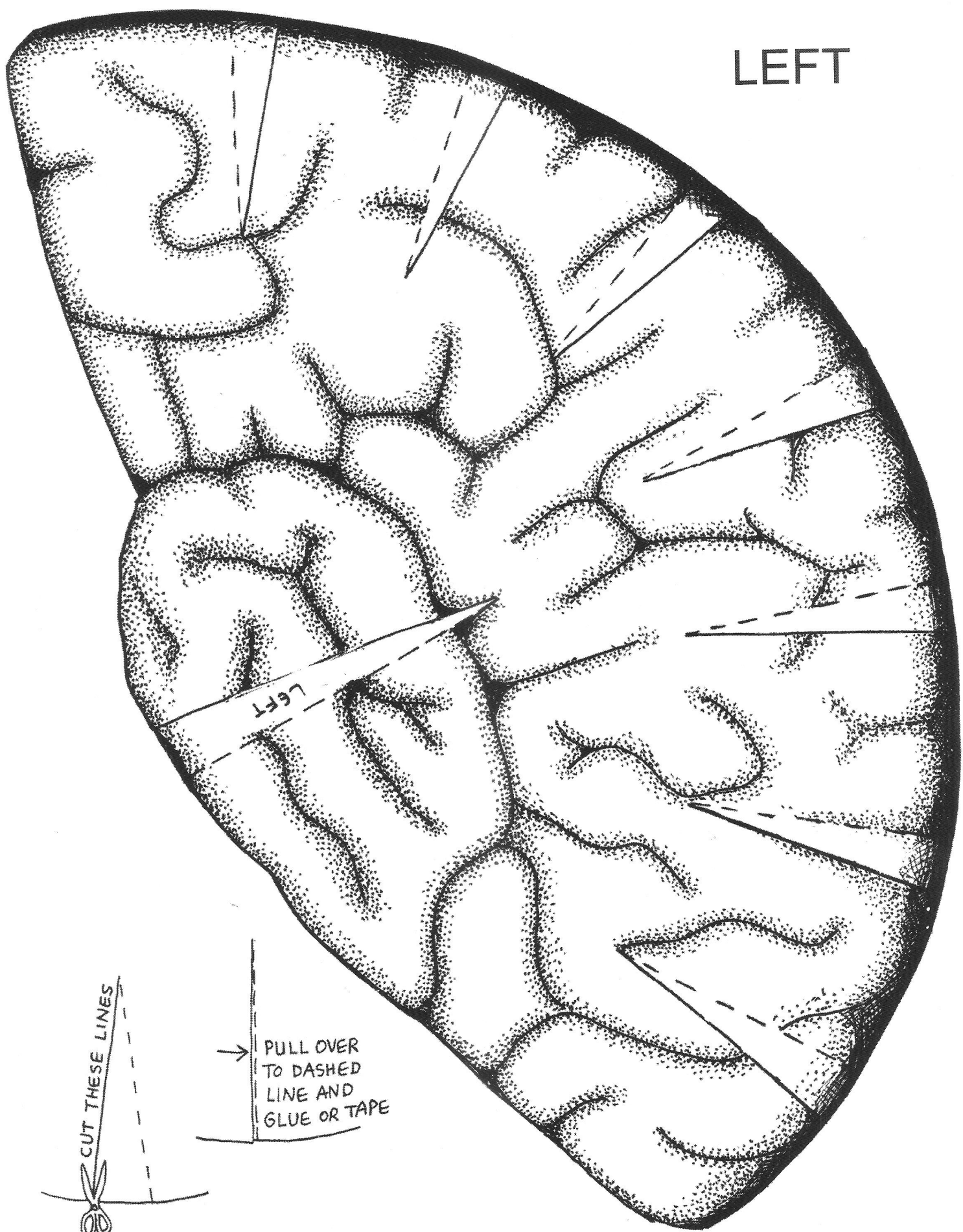
How to assemble:

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) and secure with tape.

TIP: You might want to write RIGHT and LEFT on the inside of the hat pieces before you cut them out. You'd be surprised at how easy it is to lose track of which is which once you've cut them out.



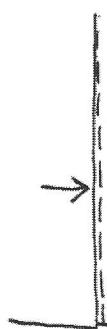
LEFT



CUT THESE LINES



PULL OVER TO DASHED LINE AND GLUE OR TAPE



RIGHT

FRONTAL LOBE

EUREKA!



MOTOR CORTEX

leg
hip
trunk
neck
head
arm
elbow
fingers
lips
mouth
throat

SENSORY CORTEX



ORAL
SMELL

PARIETAL LOBE

TEMPORAL LOBE

OCCIPITAL LOBE



← PULL
DASHED LINE
OVER TO SOLID
LINE, AND TAPE

CUT JUST THIS
DASHED LINE

