

BRAIN HEMISPHERE HAT

Target age group: ages 8-13 (but used around the world for all ages including adults!)

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 card stock. (If card stock is not available, go ahead and use regular paper, the hat just won't be quite as durable)
- scissors
- 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, use clear tape on the inside of the hat.

- 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 size of the hat can be made a little smaller by overlapping the hemispheres slightly more before taping them together. The V tucks can also be overlapped just a little more. If you have very young children with substantially smaller heads, you can try the smaller pattern.

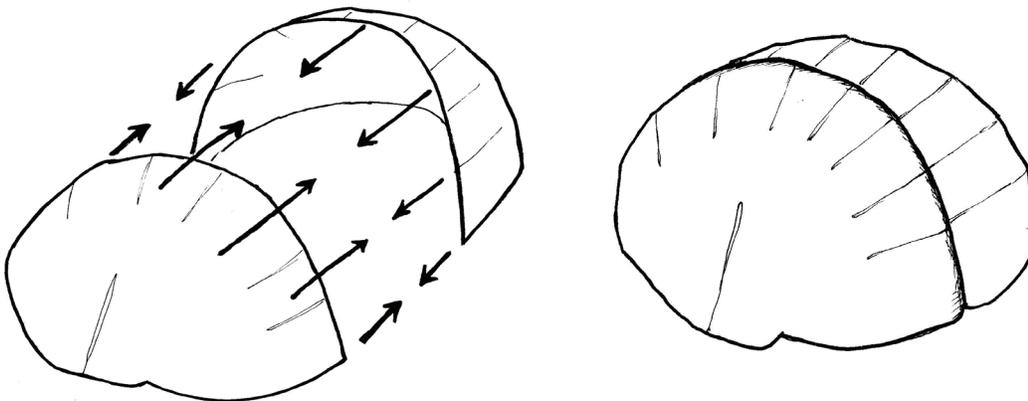
- If you are doing this project with a class, you might want to have a few pre-assembled hats for the students to try on before assembling their own. Make one standard size, one a little smaller, and maybe one even smaller if you have young students. Students who find that the smaller hats fit better will know to make adjustments during assembly.

How to assemble:

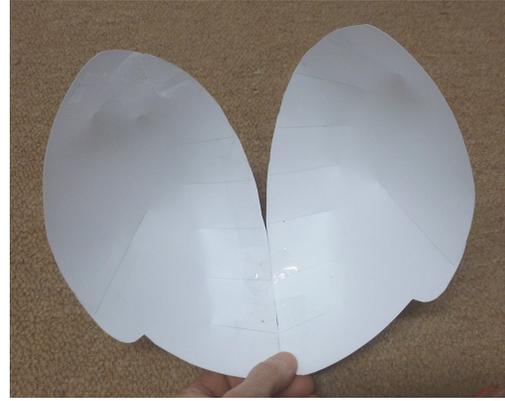
Cut out both hemispheres. Then snip in on the solid "V" lines. Don't snip on the dashed lines, just the solid lines. Then pull the "flaps" you have created over to their dashed lines and secure with glue or tape. After you have pulled all the flaps over to their dashed lines, it should then take on a half-round shape.

To put these two halves together, turn them over and work on the inside seam. Start at one end and match the sides. Secure with tape. (Don't worry that the rest of the seam is gaping open.) Work your way along that inside seam, inch by inch, matching and taping each little section as you go. (This is similar to sewing a curved seam on a sewing machine.) When you get to the last part of the seam, the hat will finally be taking on its final shape.

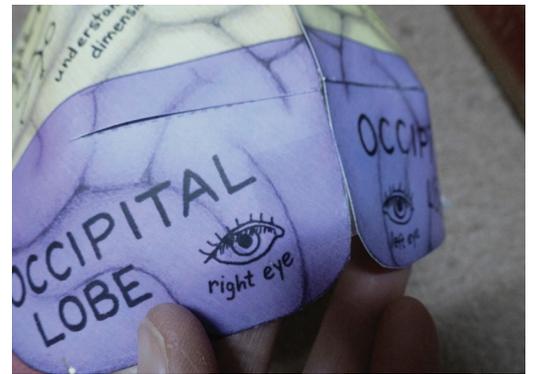
Optional: If you would like to add a cerebellum, cut it out and tape to inside of back of hat.



A few photos that might be helpful:



Start the inside assembly by taping just one side. Then go inch by inch, taping one piece at a time. If you want to make the hat as large as possible, make a flush joint with no overlap. For a slightly smaller hat, overlap them just a bit.



You might want to reinforce the ends by putting a piece of tape on the outside, too.



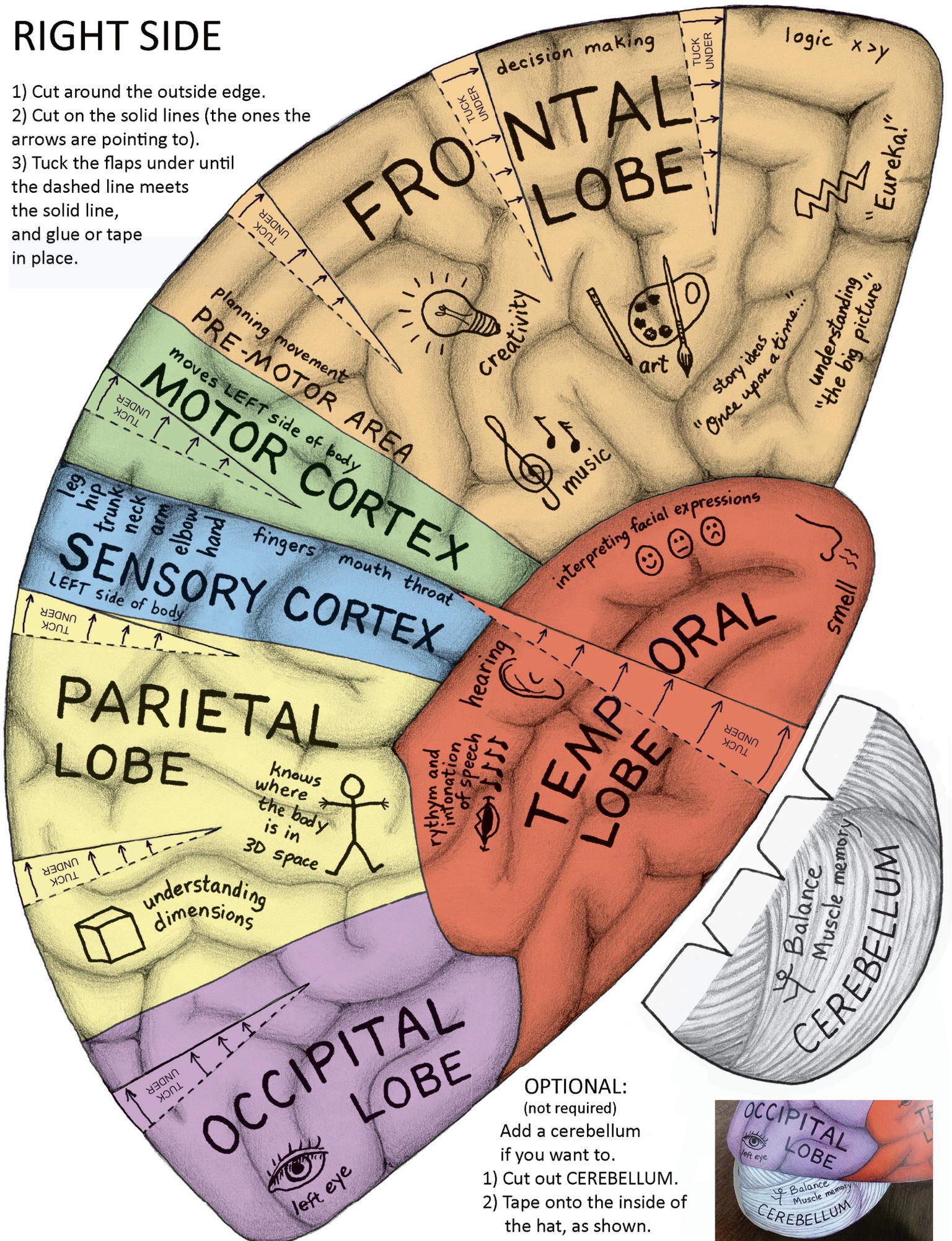
You will end up with a lot of tape on the inside of the seam. You can overlap the two sides a bit, or make them flush.



Option: You can add a cerebellum if you want to. Just cut out the pieces and tape them to the inside of the back of the hat. The right hemisphere is shown here.

RIGHT SIDE

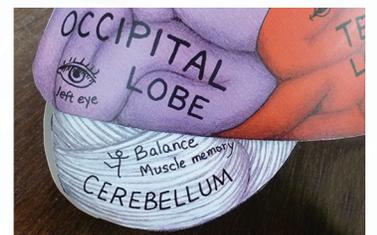
- 1) Cut around the outside edge.
- 2) Cut on the solid lines (the ones the arrows are pointing to).
- 3) Tuck the flaps under until the dashed line meets the solid line, and glue or tape in place.



OPTIONAL:
 (not required)

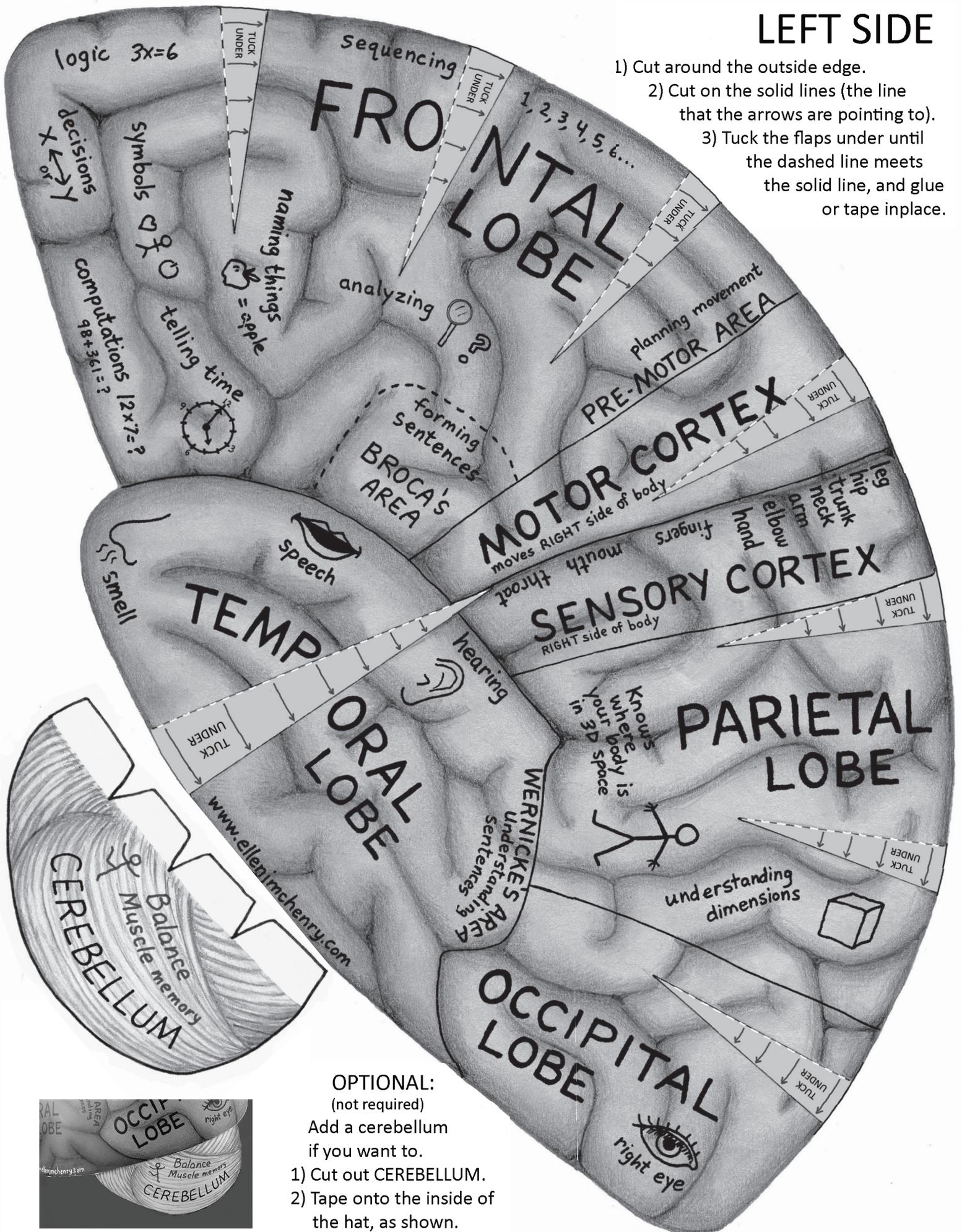
Add a cerebellum if you want to.

- 1) Cut out CEREBELLUM.
- 2) Tape onto the inside of the hat, as shown.



LEFT SIDE

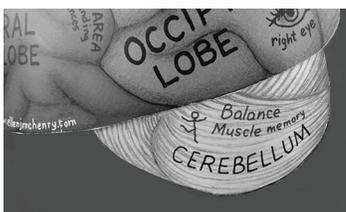
- 1) Cut around the outside edge.
- 2) Cut on the solid lines (the line that the arrows are pointing to).
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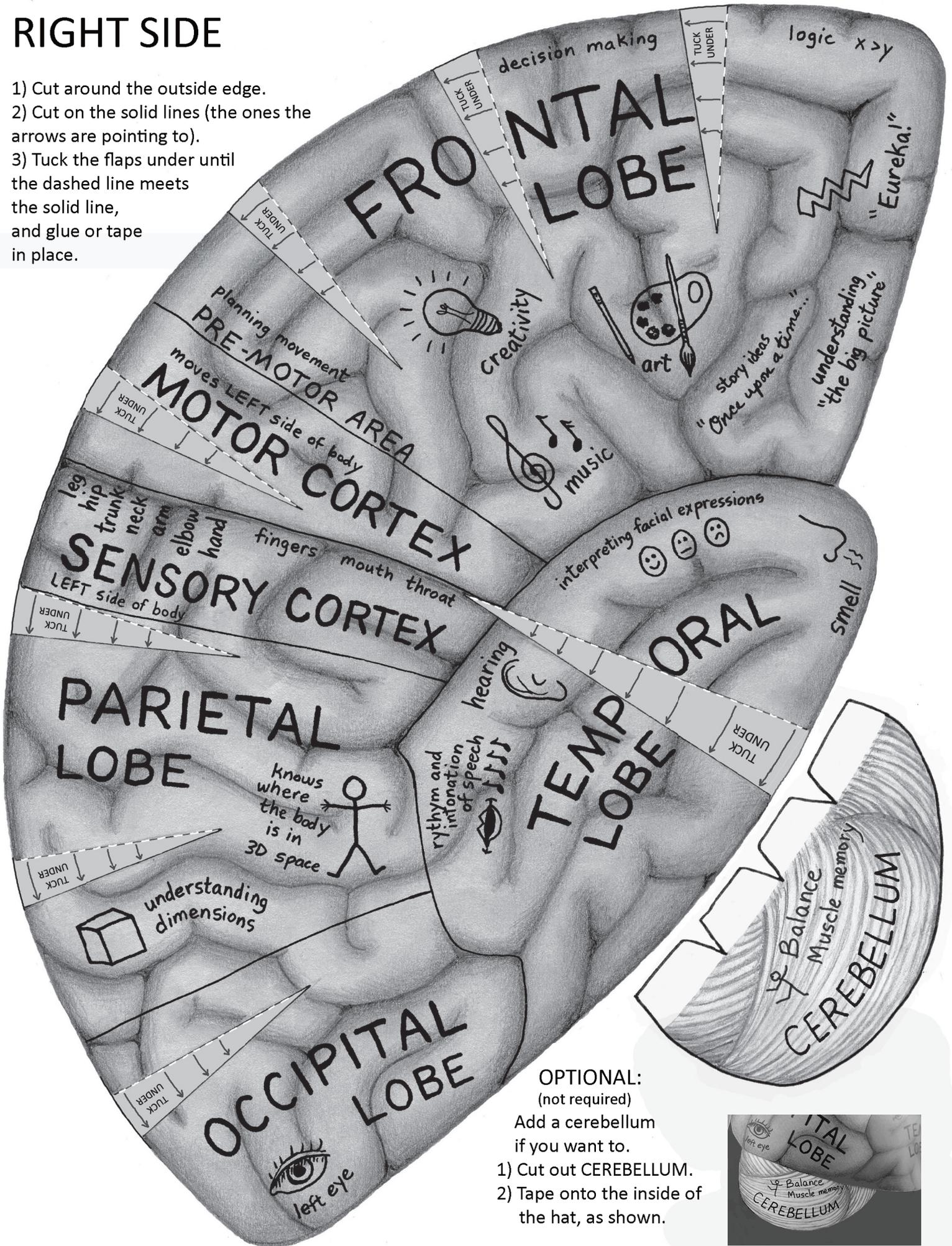
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RIGHT SIDE

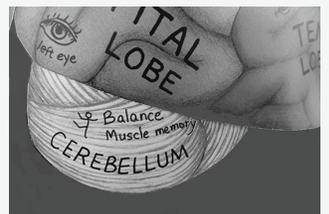
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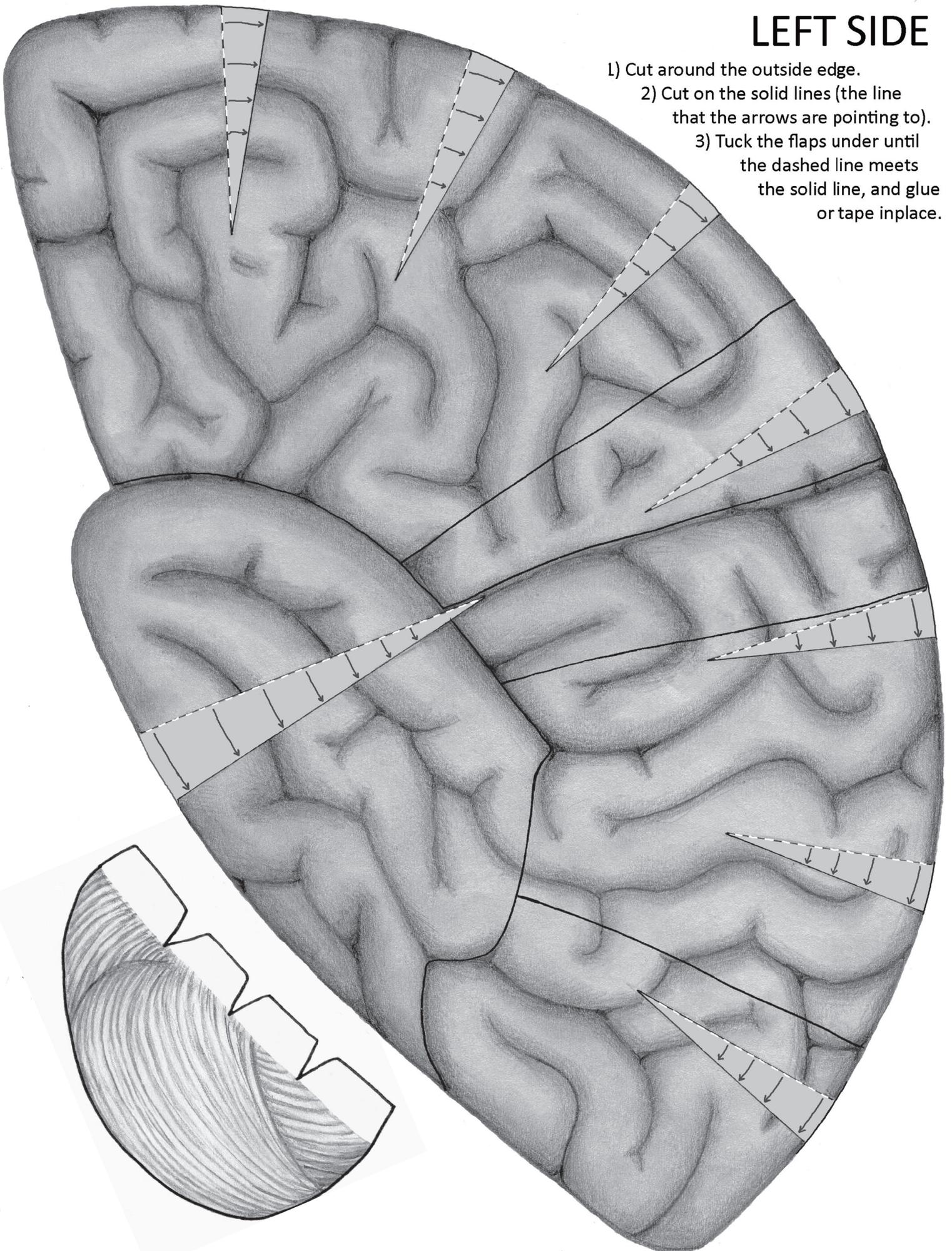
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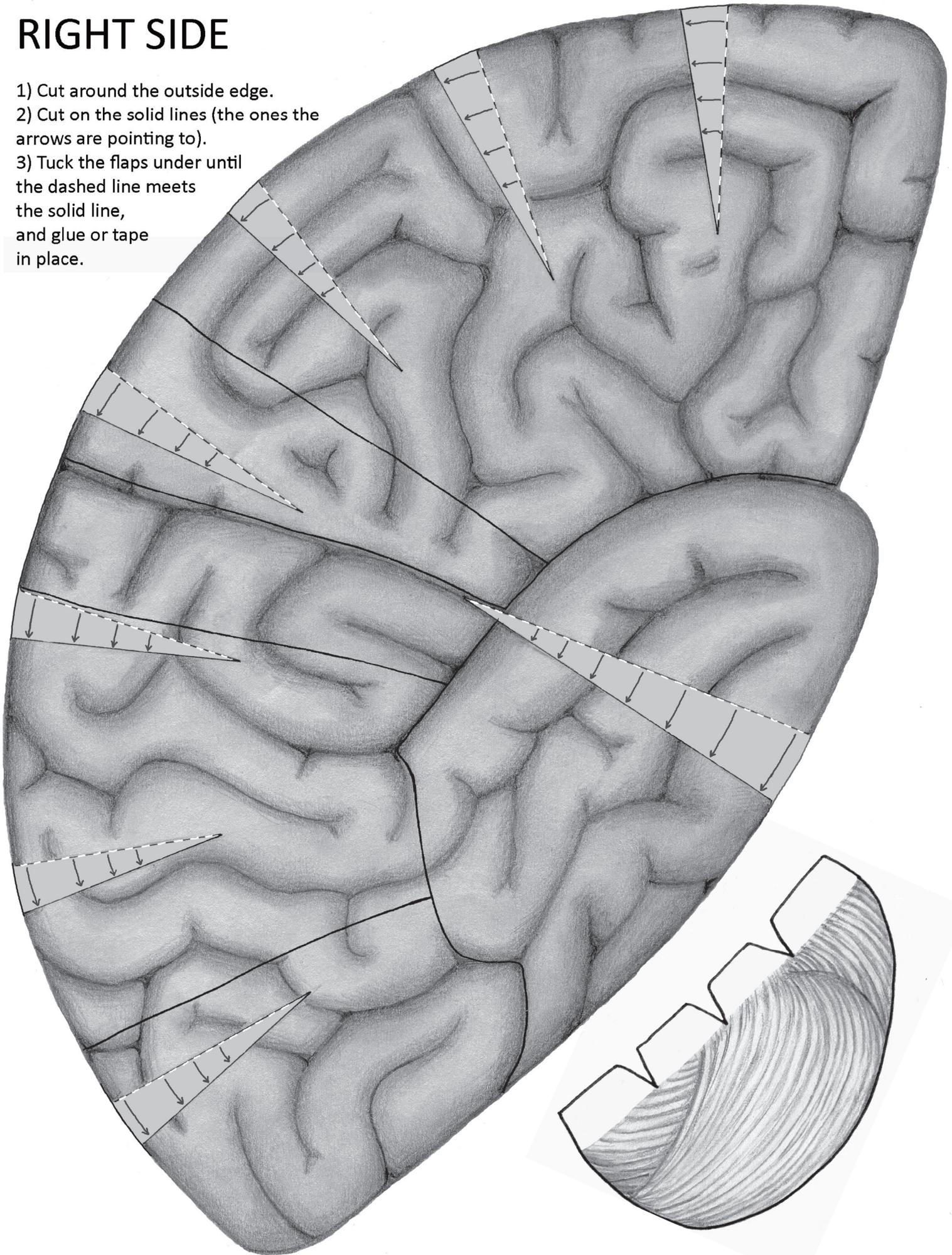
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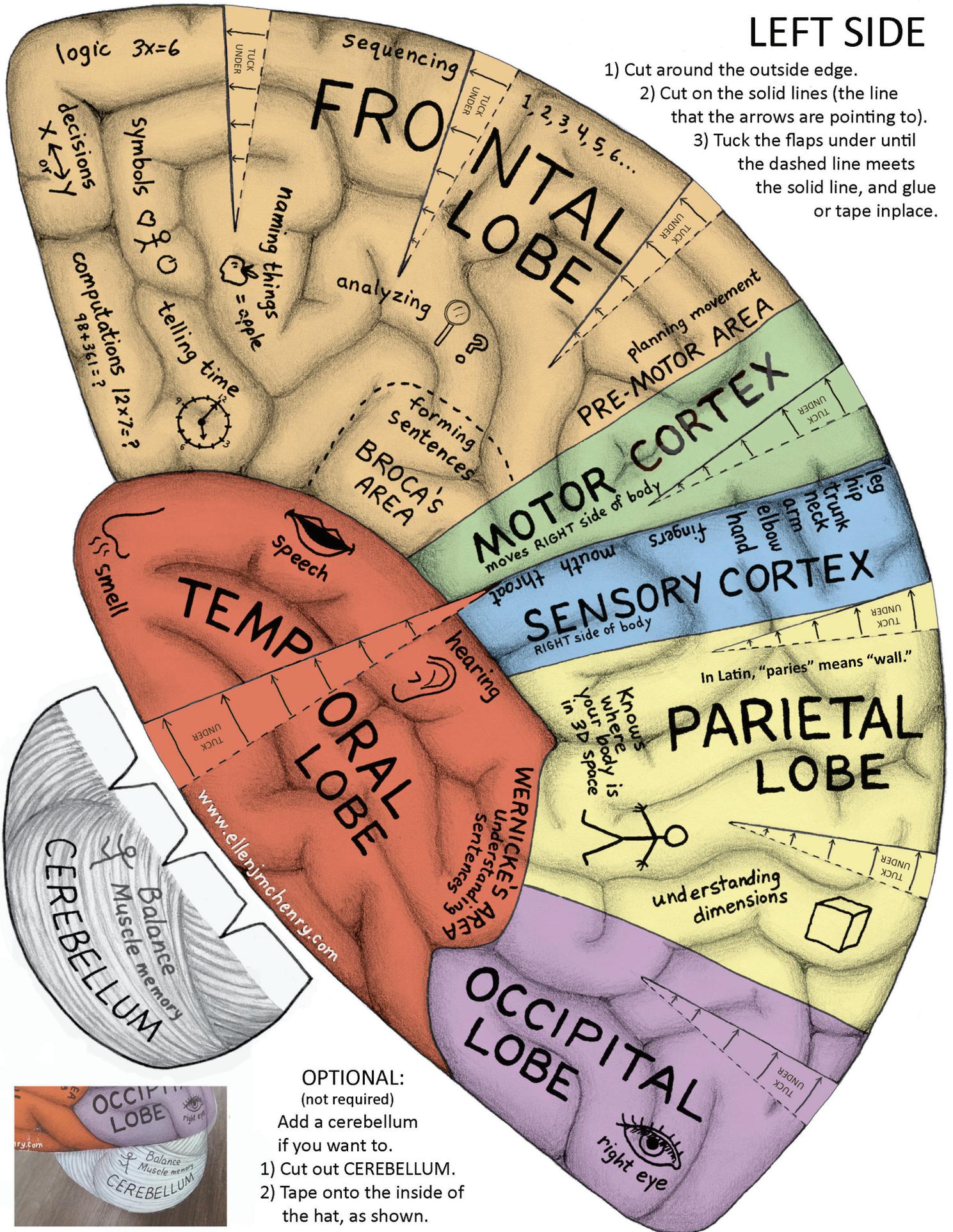
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SMALL CHILD SIZE

LEFT SIDE

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OPTIONAL:
(not required)

Add a cerebellum if you want to.

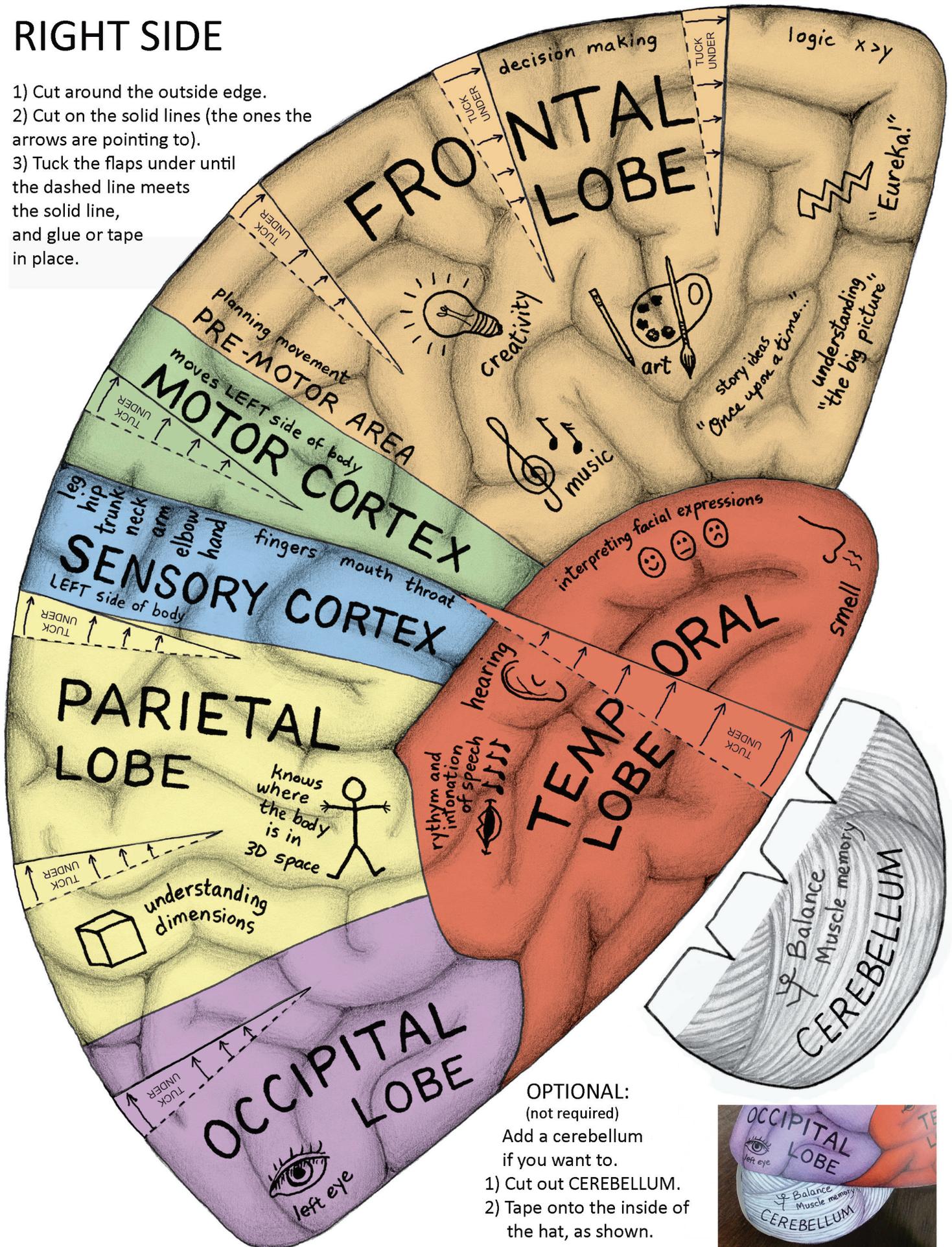
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SMALL CHILD SIZE

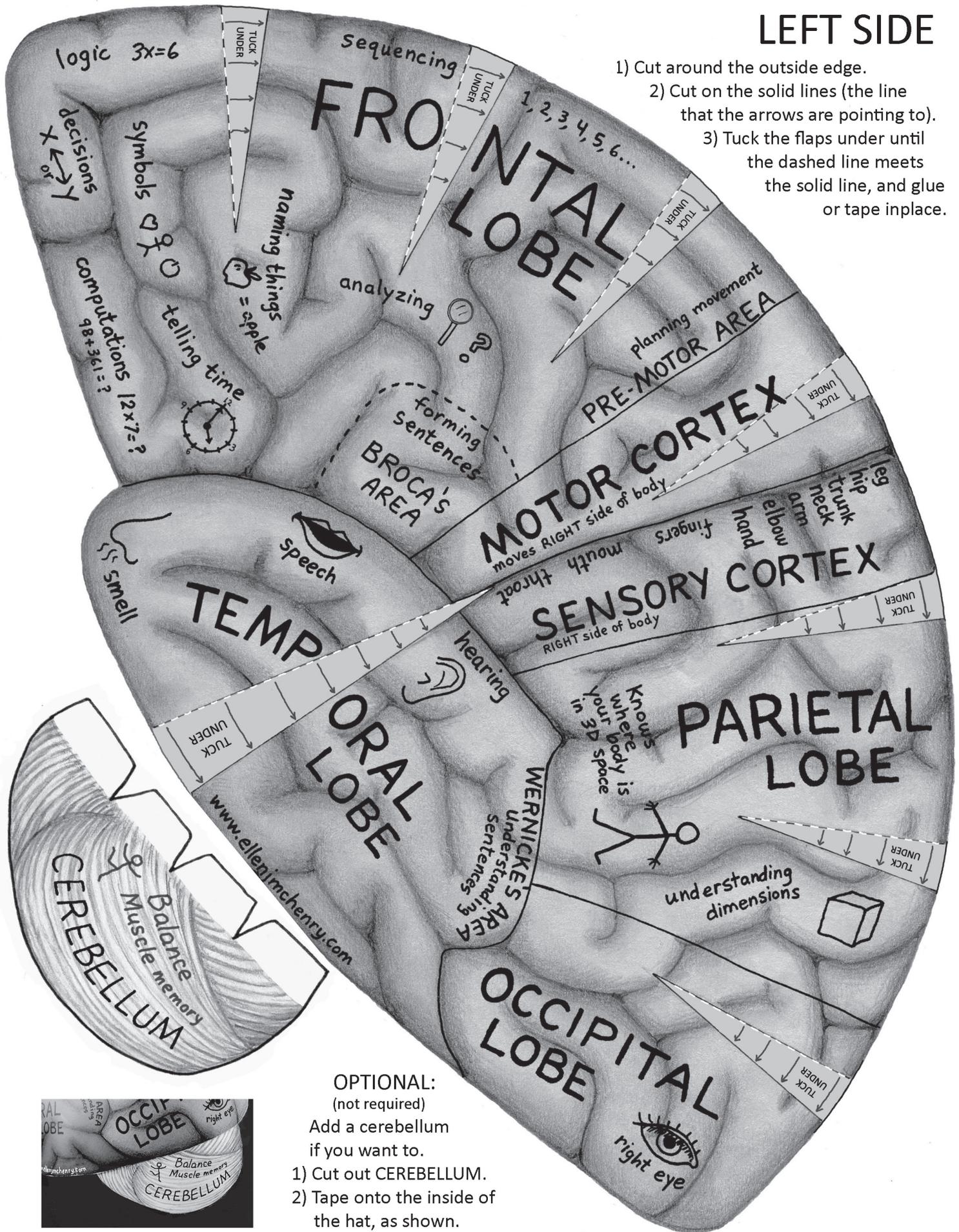
RIGHT SIDE

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SMALL CHILD SIZE

LEFT SIDE



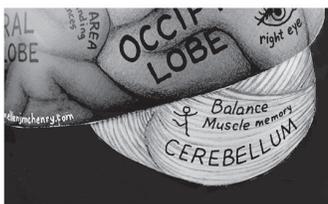
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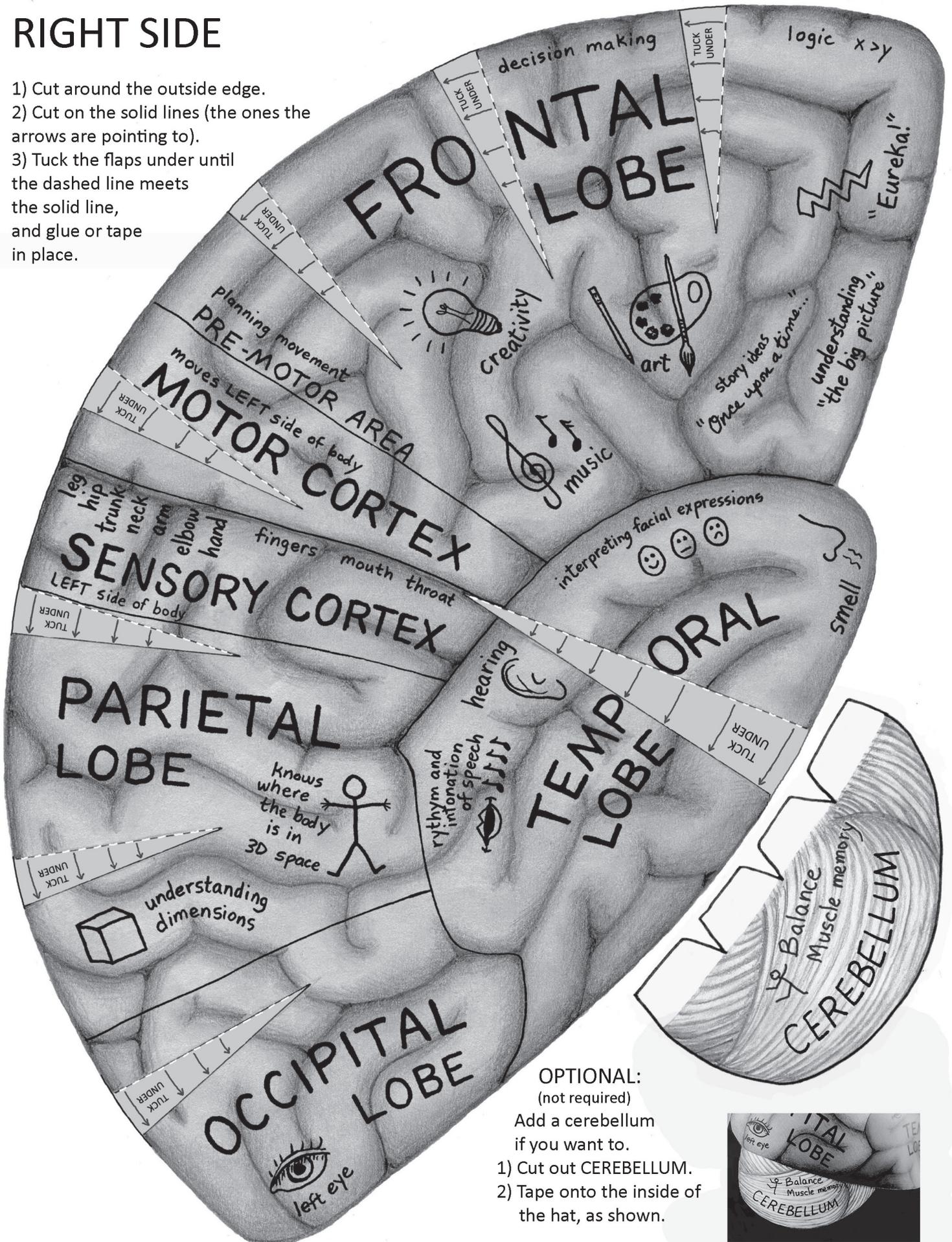
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SMALL CHILD SIZE

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