**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 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.
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.

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.
1) Cut around the outside edge.
2) Cut on the solid V line (the line that the arrows are pointing to).
3) Tuck the arrow flaps under until the dashed line meets the solid line, and secure with glue or tape.
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2) Cut on the solid V line (the line that the arrows are pointing to).
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LEFT SIDE
size: LARGE

1) Cut around the outside edge.
2) Cut on the solid V line (the line that the arrows are pointing to).
3) Tuck the arrow flaps under until the dashed line meets the solid line, and secure with glue or tape.
RIGHT SIDE
size: LARGE

1) Cut around the outside edge.
2) Cut on the solid V line (the line that the arrows are pointing to).
3) Tuck the arrow flaps under until the dashed line meets the solid line, and secure with glue or tape.
LEFT SIDE
size: SMALL

1) Cut around the outside edge.

2) Cut on the solid lines that the arrows are pointing to.

3) Tuck the flaps under until the dashed line meets the solid line, and glue or tape in place.
RIGHT SIDE
size: SMALL

1) Cut around the outside edge.

2) Cut on the solid lines that the arrows are pointing to.

3) Tuck the flaps under until the dashed line meets the solid line, and glue or tape in place.
LEFT SIDE
size: LARGE

1) Cut around the outside edge.

2) Cut on the solid lines that the arrows are pointing to.

3) Tuck the flaps under until the dashed line meets the solid line, and glue or tape in place.
RIGHT SIDE
size: LARGE

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