

The Brain Map Guidelines:

The purpose of this activity is to create a visual map of the information you have read about the brain.

Read the text silently. Underline as you read – words, phrases, sentences or short passages that stand out to you for any reason. Find a partner who has also read the text and take turns reading paragraphs aloud to one another.

Get a large piece of paper, a pencil, and your colored pencils. Begin to create your brain map, following the prompts below:

Your map must include:

1. Three sketches of the brain – the top, the side, and the inside – and labels of all the parts you can find in the reading.
2. A description of what the parts of the brain that you have labeled do. *What is each part's function?*
3. For three of the parts you have labeled, write or draw ways that you use these parts in your own life.
4. Three facts that you found in the reading, especially those that you find interesting!
5. Three questions that you have about the brain.

Please make this map as creative as you like!


MEMORY GUIDELINES



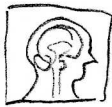
After we've read about the way memory works in the brain, you will combine writing and drawing to explain the information.

The memory map must include:

- Definitions of each of the three types of memory.
- Two personal examples for each type of memory.
- Some kind of visual information with your writing that helps viewers understand the process of memory.

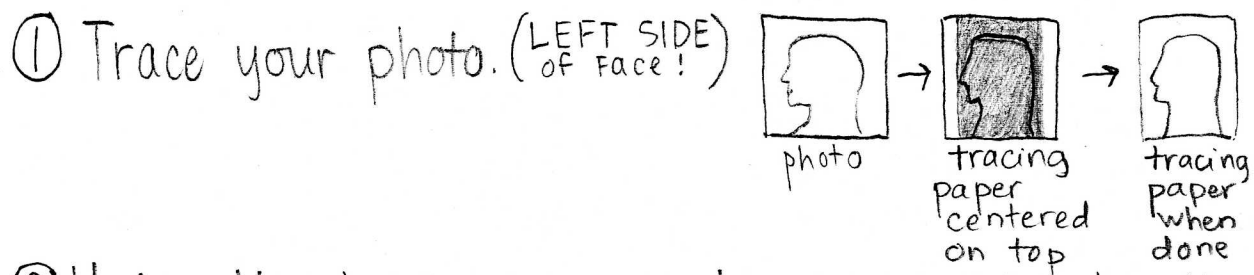
BRAIN OVERLAY INSTRUCTIONS

- You will need:
- Tracing paper
 - Sharp Ticonderoga pencil
 - Photo of RIGHT side 
 - Brain stem handout

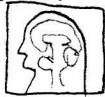
- ① Trace your photo. (RIGHT side - nose pointing → )
- ② Turn tracing paper over. Like this → 
Use the brain article image and the brain stem handout to draw the BRAIN STEM on the back side, clearly and with detail. (don't worry about detail for the cerebrum + cerebellum.)
- ③ Turn paper back to original side → 
- ④ Using the brain stem handout, label your drawing with: Spinal cord, Midbrain, Pons, Medulla.
- ⑤ From what you learned in the brain stem reading, add the functions of the four parts you have labelled.
- ⑥ On scratch paper, write examples of how you use these parts in your own life, check them with a teacher, then add them to your overlay.

BRAIN STEM OVERLAY INSTRUCTIONS

- You will need:
- Tracing paper
 - Sharp Ticonderoga pencil
 - Photo of LEFT side of your head
 - Brain article (the one used for Brain map)
 - Brain map



② Using the image in your brain article, lightly sketch where the outline of the brain would fit.



③ Use inside-brain-image to observe the brain and draw details onto tracing paper. (Pay most attention to the cerebrum and cerebellum.)

④ Looking at the information on your finished brain map, LABEL (with correct spelling): (+ cursive italic)

- cerebrum
- cerebellum
- thalamus
- hypothalamus

⑤ Write (after your brain map spelling is ✓-ed) what each part does - what are its functions? Write examples of how you use these parts in your own life.

MEMORY OVERLAY INSTRUCTIONS

You will need:

- Tracing paper
- Sharp Ticonderoga pencil
- Memory map
- Photo of the back of your head

① Read over your memory map and revise and edit it, looking for correct spelling, clear definitions, and good examples.

② Bring your memory map to a teacher to be checked and spell-checked.

③ Plan the layout of your memory overlay on scratch paper. Will you include drawings?

④ Write your memory information and examples onto your overlay.

LEFT AND RIGHT HEMISPHERES

You will need:

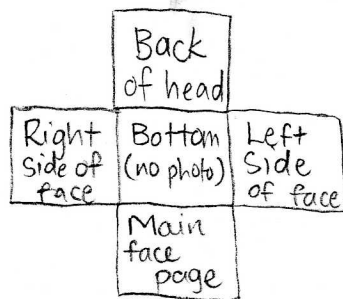
- Tracing paper
- Sharp Ticonderoga pencil
- Brain map
- Photo of the top of your head
- Image of top of brain

- ① Trace the photo of the top of your head.
- ② Use the image of the top of the brain to observe the dividing line between hemispheres and draw details of the line.
- ③ Check with a teacher before you label the left hemisphere and right hemisphere.
- ④ Once you've labelled the hemispheres, use the information on your brain map to write all of the things each hemisphere controls.
- ⑤ On scratch paper write 3 examples for each hemisphere of how you use it in your own life. Check these with a teacher before you put it on the final tracing, then add them to your overlay.

BUILDING THE BRAIN BOX !!!

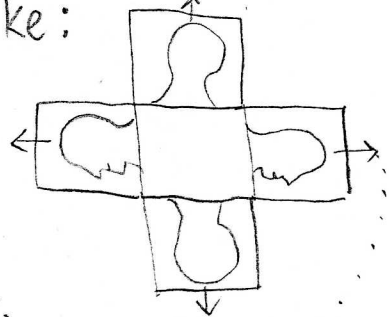
- You will need:
- Your 6 matteboard pieces
 - Your tracing paper drawings
 - 4 tabs
 - Page of tape
 - A pencil (for checking boxes)
 - A piece of velcro
 - Shared glue sticks

Set your matteboard pieces FACE DOWN like this:



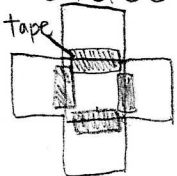
(You don't need the side with the top of your head until later.)

*If you could see through the board, it would look like:



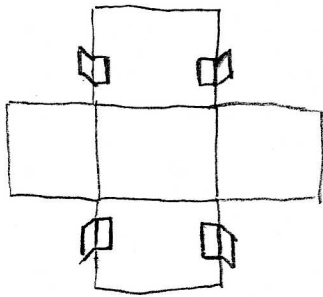
Make sure the top of the head is facing away from the bottom piece!

Use 4 long strips of tape to connect the four sides to the bottom. You might want someone to hold the 2 pieces together while you lay the tape down.

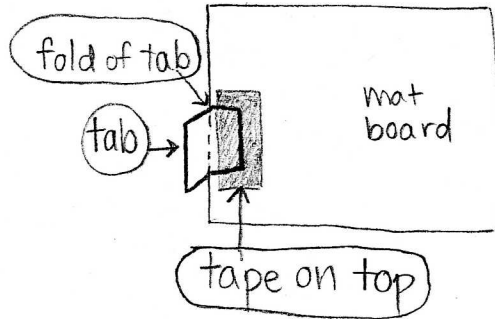


□ Tape the four tabs down using the short strips of tape like this:

OVERALL VIEW

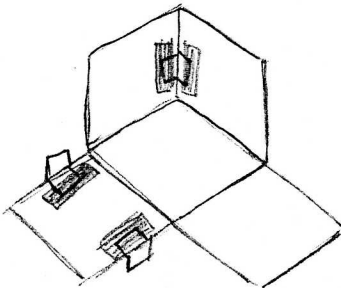


CLOSE-UP VIEW

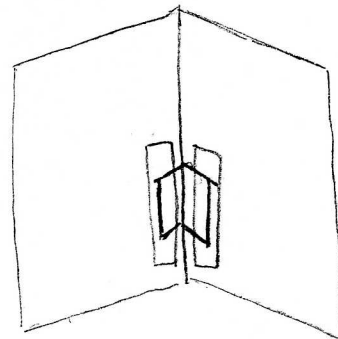


□ Now you will attach the tabs to the other sides and bring the sides up, so it begins to look like a box.

THE FIRST CORNER WILL LOOK LIKE:

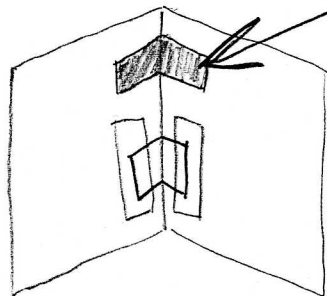


CLOSE-UP VIEW

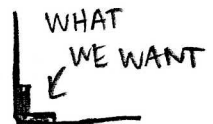


Tip: You may want to lay the box on its side as you tape all of the four corner tabs.

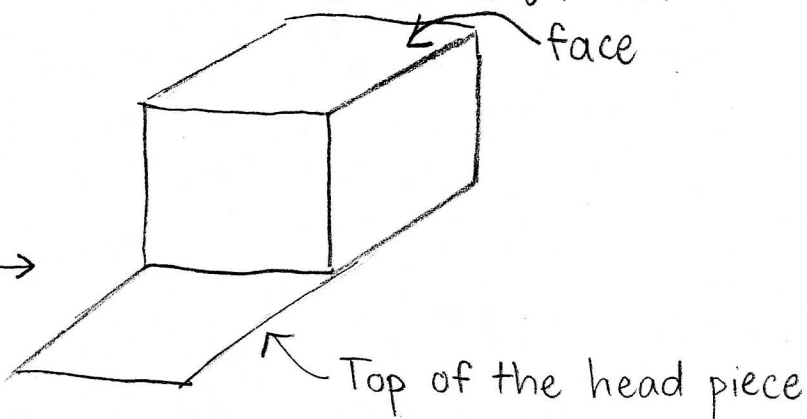
□ Now add one more piece of (short) tape to each corner like this:



Press the tape into the corner:



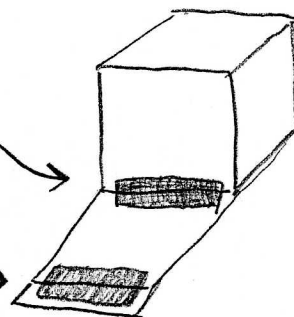
Now you will attach the lid of the box and the opening flap. First, lay your box down so the back of the head is flat on the table.



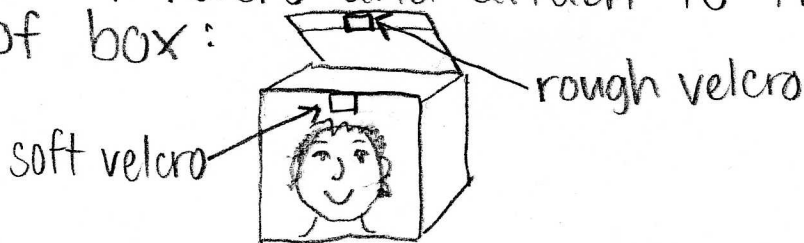
Before you tape! →
Make sure the top of your head is set up the right way!

Then, tape with long pieces:

Now, add the opening flap:



Get a piece of velcro and attach to flap and front of box:



Last step: glue the top 1-2 inches of the back of each overlay, line it up carefully over each photo, and attach to the box. For the top overlay, you may want to glue the whole thing down.

CONGRATULATIONS! YOU HAVE A BRAIN BOX!