

AP Psychology Brain Project

Mr, Doyle

Unit 2: Neuroscience

The Task

The purpose of this project is to familiarize you with the structures of the human brain and their functions by creating a **3-D model** of the human brain.

How to Do It

When making your model, the **choice of materials** is up to you, but it must be able to be transported to the classroom without spilling, leaking, falling apart, or otherwise making a mess.

Possible materials include:

- ✓ Styrofoam
- ✓ modeling clay
- ✓ papier-mâché
- ✓ if you have the baking skills, you could even bake a “brain cake”, or some sort of “food brain”!

Feel free to be **creative** in the materials, as long as it’s 3-D and can show the inside and outside!

Your brain must be **accurately shaped** and **properly labeled**.

VERY IMPORTANT!

Since you must be able to accurately label the entire brain, it will need to “split open” in some way to allow us to see the interior structures of the brain.

Parts of the Brain to Label

The following structures on your brain must be labeled:

- | | | | |
|------------------------|----------------------|---------------------|--------------------------|
| 1. medulla | 6. hypothalamus | 11. left hemisphere | 16. occipital lobe |
| 2. pons | 7. amygdala | 12. cerebral cortex | 17. motor cortex |
| 3. reticular formation | 8. hippocampus | 13. frontal lobe | 18. somatosensory cortex |
| 4. cerebellum | 9. corpus callosum | 14. parietal lobe | 19. Broca’s area |
| 5. thalamus | 10. right hemisphere | 15. temporal lobe | 20. Wernicke’s area |

Guidelines

- ✓ You may work **alone** on this project, or if desired, you may work with **one or two partners** to complete the assignment.
- ✓ If working with partners, it is my expectation that students will **divide the workload evenly!**
- ✓ Brain must be at least 6 inches long x 3 inches wide x 4 inches high.
- ✓ On the due date, you will bring in your fully-labeled model.

Grading Rubric

This project will be counted as one of your **test grades** for Term 2. See rubric handout on next page for specific details.

Due Date

The project will be due on _____.

Brain Project Rubric

Name _____ **Date** _____ **Subject** AP Psychology **Assignment** Brain Project

Facet	Advanced (4)	Proficient (3)	Needs Improvement (2)	Deficient (1)	Not Evident (0)	Score
Organization & Accuracy	All five criteria are met: 1) brain is 3-D 2) brain is at least 6" long x 3" wide x 4" high 3) brain is accurately shaped 4) clearly shows both outside and inside of brain 5) all parts of brain accurately AND neatly labeled	<ul style="list-style-type: none"> Four of the five criteria are met. 	<ul style="list-style-type: none"> Three of the five criteria are met. 	<ul style="list-style-type: none"> One or two of the five criteria are met. 	<ul style="list-style-type: none"> Quality and scope of work is insufficient for assessment. 	(x 12.5)
Creativity	<ul style="list-style-type: none"> Extremely interesting, engaging, visually stimulating Aesthetically appealing use of color, labels and text Interest, motivation, effort and time obviously present 	<ul style="list-style-type: none"> Interesting, engaging, visually stimulating Good use of color, etc. Interest, motivation, effort and time obviously present 	<ul style="list-style-type: none"> Very little use of color but enough to engage and hold attention Interest, motivation, effort and time obviously present 	<ul style="list-style-type: none"> No use of color Not interesting to look at, does not catch your attention Interest, motivation, effort and time obviously absent 	<ul style="list-style-type: none"> Quality and scope of work is insufficient for assessment. 	(x 12.5)
					Total	

Final Grade _____