Name		 
Date Due		

#### **BRAIN DISSECTION**

Learning Target: Identify the structures of the brain and state the function of each structure. (K)

### Preparation:

- Begin by opening up the "Brain Dissection" power point on the web-site. Make sure both you and your lab partner can see the computer screen.
- Next prepare your dissecting tools and obtain a brain from the center cart.
- Read the directions on how to perform a successful brain dissection.
- Take at least one picture of each underlined word. Name the picture right away so you know what it is.

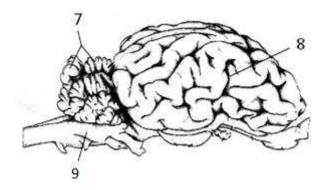
### STEP 1

1. In Latin, what does " <u>dura mater</u> " mean?	 
2-4. Describe the dura mater	
5. What is the function of the dura mater?	

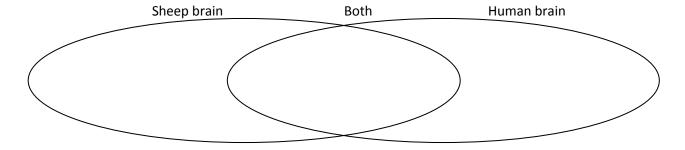
6. The dura mater, arachnoid mater and pia mater are collectively called the \_\_\_\_\_\_\_.

## STEP 2

Label the structures of the brain shown n the picture below. Take a picture of each structure.



- 10. Which structure in the picture is used to read this sentence? \_\_\_\_\_\_
- 11. Which structure is used to help you stand up right while performing the lab?
- 12. Which structure is used to keep your heart pumping? \_\_\_\_\_
- 13-15. Fill in the Venn diagram with 1 similarity and 1 distinguishing characteristic.



# STEP 3

16. What are the <u>ridges</u> of the cerebrum called?	
17. What are the grooves of the cerebrum called?	<u>-</u>
18. Why isn't the surface of the cerebrum smooth?	<del></del>
19-20. Observe the dorsal side of the brain. Find the <u>longitudinal</u> <u>fissure</u> . Label it on the picture and state its purpose.	
21. What is a fissure?	
STEP 4	
22. Label the olfactory bulbs.	
23. What sense the olfactory bulbs are associated with.	
24. What is a "tract"? (pg. 232)	
25. Label the optic nerve.	N SING A
26. What sense are the optic nerves associated with?	
27. What is the purpose of the <u>optic chiasma</u> ? (use internet)	
28. Label the <u>oculomotor nerve</u> . It allows for eye movement.	No.
29. Label the mammillary body .  30. What is its function? (use internet)	
31. Label the <u>pons</u> . 32. What part of the brain does the pons belong to?	

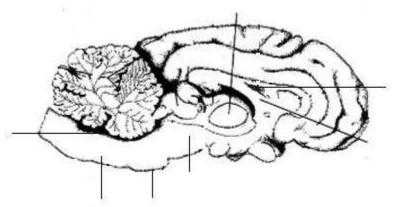
#### STEP 5

Now make a midsagittal cut through the brain.

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34. What is its function?	
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- 35. Label the lateral ventricle.
- 36. What substance is made in the lateral ventricle?
- 37. What is an aqueduct? \_\_\_\_\_
- 38. Label the 4<sup>th</sup> ventricle.
- 39. What structure is superior to the 4<sup>th</sup> ventricle?
- 40. Label the thalamus.
- 41. What is the only sense that is not interpreted in the thalamus? \_\_\_\_\_\_
- 42. Label the medulla oblongata.
- 43. Label the pons.
- 44. Label the midbrain.



### STEP 6

Make a coronal (frontal) section perpendicular to the longitudinal cerebral fissure.

- 45. Is the outer 1/8 layer made of gray or white matter?
- 46. The darker area, gray matter, is the cortex. The <u>cortex</u> contains the \_\_\_\_\_\_.
- 47. The white matter contains the \_\_\_\_\_\_.
- 48. What is the name of the chamber shown on slide 20? \_\_\_\_\_\_

Finish the power point and clean up.