

**Honors Physiology**  
**Dissection of the Sheep Brain**  
**Pre Lab**

**Name:** \_\_\_\_\_

**Period:** \_\_\_\_\_

Directions: Answer the following pre-lab questions having to do with lab safety and anatomy/ physiology of the brain. Then, prepare your lab report for our sheep brain dissection next class period. Your report will need to include: (\* = to be completed before coming to lab)

Pre-Lab Questions \*  
Purpose  
Detailed Procedure  
Materials  
Discussion Questions  
Conclusion

Reminder: Rubber gloves are required for lab – please arrange to have them for all dissections! Also, any newspaper donations are greatly appreciated.

This lab is due **Tuesday, 3/27**. Your lab needs to be typed (not including answers to the pre-lab questions)

**Pre-Lab Questions:** (helpful textbook page numbers included)

→ Due: Tues 3/20 (P3/5) or Wed. 3/21 (P2/6)

1. What are the four basic regions of the cerebral hemisphere? (434)
2. What is the cerebral cortex? (434)
3. Name the 7 bodily functions controlled by the hypothalamus. (446)
4. What are some automatic reflexes controlled by the medulla? (451)
5. How are syncope, a coma, and brain death related? (457)
6. How are slow-wave and REM sleep different? (458)
7. How do lesions in Broca's area differ in their effect on speech to lesions in Wernicke's area? (460)
8. How are short-term and long-term memory different? (460)
9. Why does the brain need a blood barrier when other tissues do not? (467)
10. Compare concussions, contusions, subdural hemorrhage, and cerebral edema? (468)
11. What are the top 5 dissection safety rules we discussed today in class?