

MATERIALS - Sheep brain, scalpel, forceps, and paper towels.

Note: All drawings should be life-size or larger, and completed on back of this sheet. Your drawings will *not* be graded for artwork, but on the accuracy and completeness of the labels. Do *not* copy from your lab partners or any other sources, and draw the sheep and *not* the human brain.

EXTERNAL - Place the brain on paper towels with the cerebrum on top and the brain stem below.

1. Sketch the external view of the left or right side of the sheep brain (*not* the top, front, or bottom). Label the (1) cerebrum, (2) cerebellum, (3) brain stem, (4) spinal cord, (5) frontal lobe, (6) parietal lobe, (7) temporal lobe, (8) occipital lobe, and (9) hemisphere (whether the left or right).
2. What are 2 major differences that you can observe between the cerebrum and the cerebellum?
3. What are the yellow string-like structures located on the bottom surface of the brain?

SPINAL CORD - Slice off a short (one-quarter inch) cross-section from the end of the spinal cord.

4. Sketch the cut end of the spinal cord on back of this sheet. Label the • white and • grey matter.
5. What does the grey matter and the white matter each consist of?

INTERNAL - Slice the brain completely in half (between the left and right hemispheres).

6. Sketch the internal half of the brain on back of this sheet. Label the (1) cerebrum, (2) cerebellum, (3) brain stem, (4) corpus callosum, (5) arbor vitae (inside the cerebellum), and the approximate locations of the (6) hypothalamus and (7) pituitary gland.
7. What is the intricate pattern of the arbor vitae in the cerebellum composed of?

CROSS-SECTION - Slice one of the half-brains crosswise (to separate the front and back sections).

8. Sketch the cross-section of the brain on back of this sheet. Label the location of the • ventricles (the space or gaps inside the brain).
9. What is the fluid that circulates through the ventricles, and what are its 2 functions?
10. Summarize 3 major differences that you can observe between the sheep and human brains.

<u>CLEAN UP</u> - (1) Place all dissected brains into the garbage bag. (2) Return any <i>undissected</i> brains to the bucket. (3) Clean all dissection tools, and wipe down your lab table.
