

MATERIALS - Sheep eyeball, 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 eyeball.

1. External - Sketch the external view of a sheep eyeball from one side (*not* the front or back). Label the (1) eye muscles, (2) cornea, (3) sclera, and (4) optic nerve.
2. Internal - Slice the eyeball completely in half (through both the cornea and optic nerve). Sketch the internal view and label the (1) pupil, (2) iris, (3) lens, (4) sclera, (5) choroid, (6) retina, (7) fovea centralis, (8) blind spot, (9) anterior cavity (in front of the lens), and (10) posterior cavity (behind the lens).
3. Cavities - What is the fluid in the anterior cavity? What is the fluid in the posterior cavity?
4. Humors - What are 2 major differences between these two fluids (other than their location)?
5. Tunics - Name all the structures that comprise the outer, middle, and inner layers of the eye.
6. Light - List in correct order all the structures that light must pass through during vision.
7. Retina - How does the location of the rods and cones in the retina differ?
8. Blind spot - Where is the blind spot (or optic disc), and how is it produced?

CLEAN UP - (1) Place all dissected eyes into the garbage bag. (2) Clean all dissection tools, and wipe off the lab table.