

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Block: \_\_\_\_\_

## Cow Eyeball Dissection (Science 8 PW)

PURPOSE: To observe the anatomy of an animal eye that is similar to the structure and function of the human eye.

OBSERVATIONS:

1) Sketch a side view of the eye (before making any cuts).

a. What colour is the eye? \_\_\_\_\_

b. What is the width of the eye? \_\_\_\_\_

c. Identify the muscles/fat on the outside of the eyeball. Describe its appearance.  
\_\_\_\_\_

d. What structure are these muscles attached to?  
Describe its appearance.  
\_\_\_\_\_

e. Label the optic nerve directly on your diagram. Where does it lead to? \_\_\_\_\_

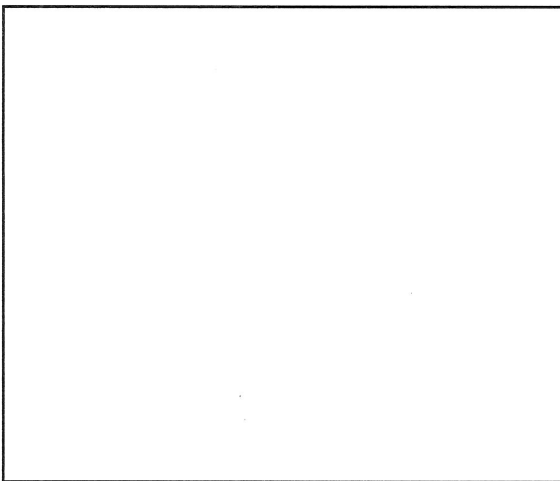
2) The Lens

a. Describe the shape of the lens. \_\_\_\_\_

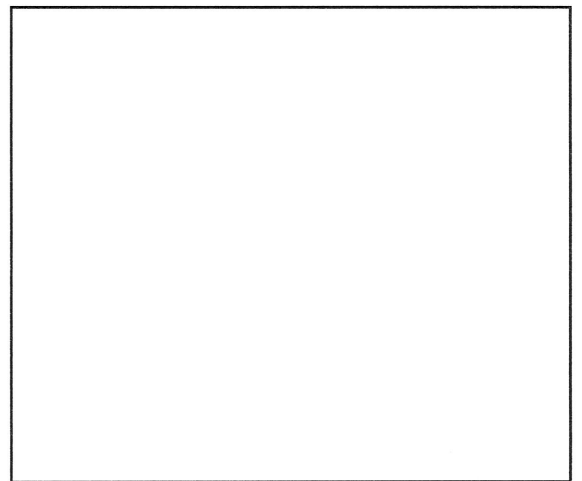
b. Place the lens on top of a newspaper clipping. How does the image appear?  
\_\_\_\_\_

c. What other structure in the eye performs a similar function (to a lesser extent) to the lens? \_\_\_\_\_

3) Carefully draw the front and back of the eye. Label all the parts you have examined.



Front



Back

*(pupil, iris, optic nerve, vitreous humor, lens, retina, choroid coat, cornea, sclera, fat)*

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QUESTIONS:

- 1) How did you feel doing this dissection?
  
  
  
  
  
  
  
  
  
  
- 2) What was the most exciting thing you experienced during the dissection?
  
  
  
  
  
  
  
  
  
  
- 3) What is the path light takes as it passes through the eye? Put them in order: rods and cones, pupil/iris, cornea, aqueous humor, vitreous humor, brain, rods and cones, retina

4) Label the following diagram of the eye and fill out the table on the next page.

