

## LAB Virtual Eye Dissection

Last Name \_\_\_\_\_, First \_\_\_\_\_ per \_\_\_\_\_

### ACTIVITY 1

Start by reviewing the parts of the eye. Go to the virtual eye dissection website: Review the parts of an eye and then do the dissection.

<http://www.eschoolonline.com/company/examples/eye/eyedissect.html>

### ACTIVITY 2

Go to [http://www.exploratorium.edu/learning\\_studio/cow\\_eye/index.html](http://www.exploratorium.edu/learning_studio/cow_eye/index.html)

*Click "Watch onLine" Answer the questions as you watch each video.*

#### Step 1 "The Cow's Eye"

1. Why does the Exploratorium dissect cow eyes? \_\_\_\_\_  
\_\_\_\_\_
2. What is one major difference between a cow's eye and a human's eye? \_\_\_\_\_  
\_\_\_\_\_

#### Step 2

3. How do cows move their eyes? \_\_\_\_\_
4. How many more muscles does a human eye have than a cow's eye? \_\_\_\_\_

#### Step 3

5. What is the function of the fat that surrounds the eye? \_\_\_\_\_  
\_\_\_\_\_

#### Step 4

6. What is the function of the cornea? \_\_\_\_\_
7. When the student cut the cornea, what happened? \_\_\_\_\_  
\_\_\_\_\_
8. What is the function of the aqueous humor? \_\_\_\_\_  
\_\_\_\_\_

#### Step 5

9. What is the white part of the eye called? \_\_\_\_\_

**Step 6**

10. What is the function of the pupil? \_\_\_\_\_
11. What part of the eye gives it its color? \_\_\_\_\_
12. How does the eye let more light in? \_\_\_\_\_
13. How is the iris of a cow different than a human iris? \_\_\_\_\_  
\_\_\_\_\_

**Step 7**

14. What is the jelly like substance that surrounds the lens? \_\_\_\_\_
15. Why is the vitreous humor clear?  
\_\_\_\_\_

**Step 8**

16. What is the function of the lens? \_\_\_\_\_  
\_\_\_\_\_
17. Describe the image of the student as you look through the lens. \_\_\_\_\_  
\_\_\_\_\_

**Step 9**

18. When you look through the lens at letters in a newspaper, what happens to the images? \_\_\_\_\_

**Step 10**

19. Where is the retina located in the eye? \_\_\_\_\_
20. What kind of cells are contained in the retina? \_\_\_\_\_

**Step 11**

21. Why do we have a blind spot in our eyes? \_\_\_\_\_
22. What would happen if the retina gets folded and wrinkled? \_\_\_\_\_  
\_\_\_\_\_

**Step 12**

23. What is the function of the optic nerve? \_\_\_\_\_  
\_\_\_\_\_
24. Why do cats and cows eyes glow at night but human eyes don't? \_\_\_\_\_  
\_\_\_\_\_