

Cow's Eye Dissection

http://www.exploratorium.edu/learning_studio/cow_eye/index.html

1. How is the cornea from a preserved eye different from the cornea from an eye from a living cow?

cornea becomes cloudy

2. How many muscles does a cow eye have? 4 A human eye? 6

3. What fluid oozes out when you cut through the cornea? aqueous humor

4. What happens to the pupil in dim light? opens wide

5. What gives the eye its round shape? vitreous humor

6. What would you see if you looked through the lens of a cow's eye?

upside down + backwards

7. Describe the shape of the lens. like a magnifying glass
- thicker in the middle

8. Would you say the lens is converging or diverging? converging

9. Describe what the retina looks like. thin film with
blood vessels - like a bowtie

10. What's the blind spot? where the optic nerve
attaches to the retina

11. Why can't you see anything that lands on the blind spot? no light
sensitive cells at that spot

12. What nerve leaves the eye at the blind spot? optic

13. Why are you able to see the world? lens makes picture on
retina, optic nerve sends message to brain

14. Why do the eyes of cats glow in the dark when you shine a light at them?

cat's eyes have tapetum - reflects light
back through the retina