

Day 98

Eye Dissection Lab

Go to the following website:

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

Click on Watch Online.

Complete the study guide as you watch the video segments.

Step 1: The Cow's Eye

Step 2: Muscles move the eye.

1. How are the muscles of the human eye different than those of the cow's eye?

Step 3: Fat cushions the eye.

2. What role does the cushion of fat play in the eye?

Step 4: The cornea protects the eye.

3. What are the 2 functions of the aqueous humor?

Step 5: Cutting the sclera

4. The white part of the eye is the:

Step 6: The pupil lets in light

5. What is the purpose of the iris?

Step 7: The lens

6. The _____ humor is the clear fluid that fills the posterior chamber.

Step 8: Looking through the lens

7. What is the function of the lens?

Step 9: The Lens is a magnifier

Step 10: The retina

8. Name the two types of photoreceptors on the retina.

Step 11: The retina is attached in one spot.

9. Explain why the eye has a blind spot.

Step 12: The optic nerve

10. The retina becomes the _____ nerve.

Go to the following website, and complete the following questions.

<<http://www.montereyinstitute.org/courses/AP_Biology_II/course_files/multimedia/lesson50/lessonp.html?showTopic=5>>

11. Describe the nature of sensory receptors.
12. How is the structure of a sensory receptor changed in response to a sensory stimulus?
13. What are two examples of stimuli for mechanoreceptors?
14. Explain how the perception of sound involves mechanoreceptors.
15. Which type of receptor is primarily involved in the senses of smell and taste?
16. How is the structure of a photoreceptor changed when stimulated by light?
17. Which type of receptor is primarily involved in the sense of sight?
18. What is the role of the brain in the perception of the senses?