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Cow Eye Dissection Field Trip Workshop

GRADE LEVELS:
Grades 6th – 8th

- CONCEPTS:
- The structure and function of the human eye is somewhat similar to that of the cow eye.

- OBJECTIVES:
- Learn how to safely and properly handle laboratory equipment.
 - Dissect a real cow eye using laboratory equipment.
 - Identify parts of the eye and their functions.
 - Discover how the human eye works and make comparisons to that of the cow's eye.

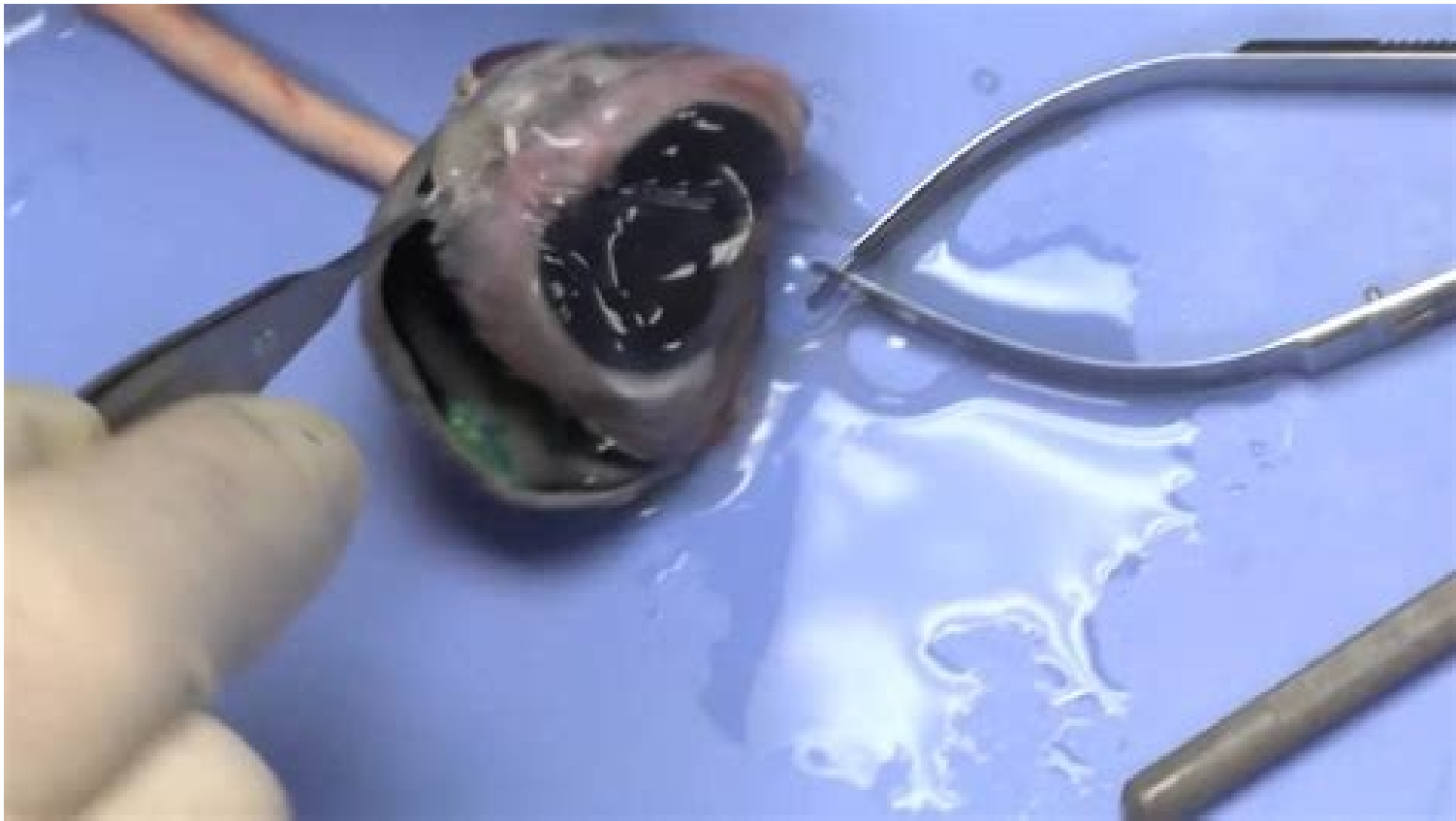
- ACADEMIC CONTENT STANDARDS:
- Life Sciences: 6.2, 6.7, 7.1
 - Scientific Inquiry: 6.1, 6.2, 7.4, 8.1

VOCABULARY WORDS:
Aqueous Humor-A clear fluid that helps the cornea keep its rounded shape.
Blind Spot-The place where all nerves from the retina join to form the optic nerve. Each eye has a blind spot where there are no light-sensitive cells.
Cones- One of the type of light sensitive cells in the retina. Cones give you color vision in bright light.
Cornea-A tough, clear covering over the iris and the pupil that helps protect the eye. Light bends as it passes through the cornea. The cornea begins bending light to make an image; the lens finishes the job.
Iris-The muscle that controls how much light enters the eye. It is suspended between the cornea and the lens. A cow's iris is brown. Human irises come in many colors, including brown, blue, green, and gray.
Lens-A clear, flexible structure that makes an image on the eye's retina. The lens is flexible so that it can change shape, focusing on objects that are close up and objects that are far away.
Myelin-The fatty layer that surrounds each nerve fiber.
Optic Nerve-The bundle of nerve fibers that carry information from the retina to the brain.
Pupil-The dark circle in the center of your iris. It's a hole that lets light into the inner eye. While your pupil is round, a cow's pupil is oval.

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1. Using a probe, locate the anterior portion of the eye and identify the dark-colored iris along with the pupil.
2. Remove the iris and cut in half. Observe the lens in your dissection. It will also appear clear.
3. Using the remaining portion of the cow specimen only, observe the brown layer (tapetum lucidum) and the light-colored choroid. Identify the white, fibrous, and translucent structures.
4. Using a scalpel, cut the white, fibrous structure. This is the optic nerve. Observe the white, fibrous structure.
5. Observe the white, fibrous structure.



Taking out Tapetum lucidum & Choroid (black) (on back of Tapetum lucidum)



Cow eye dissection lab report ivy tech. Sheep brain and cow eye dissection lab report. Cow eye dissection lab report answers. Cow eye dissection lab report conclusion.

Name Patricia Sliker Date 2/1/2021 Period Score out of 25 The Cow's Eye Dissection Laboratory What are the structures of the mammalian's eye and how do they work? The mammalian eye is made up of many specialized cells and tissues that make up different structures. Structures have certain functions and together they form images that are interpreted by the brain. In this survey, we identify the structures of a cow's eye and learn their functions. Materials Safety glasses Dissection scissors Preserved cow's eye Dissection tray Dissection tray Dissection gloves Vinyl or latex gloves Dissection probes Apron or T-Shirt Dissection T-Shirt Towels Paper plastic bags External Features A. Identify the cornea, sclera and the optic nerve. A. The white part of the eye, the sclera, is a hard outer covering of the eyeball. The sclera gives the eye its shape and helps protect the delicate inner parts. b. The blue cover on the front of the eye is the cornea. When the cow was alive, the cornea was clear. Together with the lens, the cornea refracts light and helps the eye focus. The cornea contributes more to total refraction than the lens. The curvature of the cornea is fixed, while that of the lens is variable. In the cow's eye, the cornea may be blurred. c. You may be able to look through the cornea and see the iris, the colored part of the eye, and the pupil, the dark oval at the center of the iris. In the back of the eye is the optic nerve. To see the separate fibers that make up the optic nerve, pinch the nerve with a pair of scissors or with your fingers. If you compress the optic nerve, you might have white goop. That's myelin, the layer of fat that surrounds every nerve fiber. It is the reserve that transmits the visual from the eye to the brain. 1. List two functions of sclera. The sclera gives the eye its shape and also helps to protect the delicate inside The cornea covers and helps protect the eye. List two other functions of the cornea. The cornea refracts light and helps the eye focus.3. What is the function of the optic nerve? The nerve transmits visual information from the eye to the brain. Thank you for your participation! The mammalian eye is a sensory organ that functions as part of the nervous system. These complex organs collect light, focus it on the cells of the receptor, and transmit the information to the brain where it is interpreted. The positioning and shape of the eyes vary across the animal kingdom, but the main function remains to be able to see coherently. Cow eyes are the typical dissection specimens used in the laboratory to study the anatomy of the eyes because they are structurally and functionally similar to human eyes. Students explore external and internal anatomy, learning how structures work together to create images of incoming light. A preserved cow's eye dissection can be performed in 1 ~2 class periods and requires only basic dissection tools. Explore the internal and external anatomy of the cow's eye using the procedural steps below. For more detailed dissection instructions and information, check the CarolinaA® dissection kits. The mammalian eye is a sensory organ that functions as part of the nervous system. These complex organs collect light, focus it on the cells of the receptor, and transmit the information to the brain where it is interpreted. The positioning and shape of the eyes vary across the animal kingdom, but the main function remains to be able to see coherently. Cow eyes are the typical dissection specimens used in the laboratory to study the anatomy of the eyes because they are structurally and functionally similar to human eyes. Students explore external and internal anatomy, how the structures work together to create images from the incoming light. A dissection of the preserved cow's eye can be carried out in 1~2 periods of class and requires only basic dissection tools. Explore the interna l and external anatomy of the cow's eye using the procedural passages below. detailed dissection instructions and information, check CarolinaA® dissection kits. External anatomy of Cow's Eye Get a preserved cow's eye, and then put it on your dissection tray. Examine the external characteristics of the eye. Use the image below and identify: Cornea a in front of the eye; allows light to enter the optic nerve eye a at the back of the eye; transmits nerve impulses to the brain Fat Muscle Trim fat and muscle from around the eye using scissors. Be careful not to cut the optic nerve on the back of the eye. Tip: Use your fingers to pull the fat and muscle away from the eye, then cut it off. Identify the sclera, or the hard outer cover of the eyeball. Internal anatomy of the cow's eye Keep the eye between your thumb and forefinger, as shown below. Using scissors or scalpel, carefully cut the eye in half, separating the front and back of the eye. Examine the inner front of the eye. Remove jelly-like humor and hard lens. Reserves make the lens hard and opaque, but in living organisms the lens is clear and flexible. With scissors, cut around the edge of the cornea to expose the iris and pupil. Use forceps to detach the iris from the sclera and examine the structures. Examine the back of the eye. Carefully remove the retina. Note that it connects to the back of the eye to the intersection of the optic nerve; this is the blind spot. Examine the iridescent and reflective layer under the retina. This layer is called the tapetum lucidum. Cows and other nocturnal animals have a tapetum lucidum, but humans do not. Follow all instructions for cleaning and disposal.Instructions.

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