

The Cow Eye Dissection Lab

What are the structures of the mammalian eye and how do they function?

The mammalian eye consists of many specialized cells and tissues that make up several different structures. The structures have certain functions and together, they form images that are interpreted by the brain. In this investigation, you identify the structures of a cow eye and learn their functions.

Materials

- Safety goggles
- Dissection scissors
- Preserved cow's eye
- Dissection tray
- Forceps
- Vinyl or latex gloves

- Dissection probes
- Apron or tee-shirt

- Paper towels
- Plastic trash bag

External features of the eye

A. Locate the cornea, sclera, and optic nerve.

- The white part of the eye, the **sclera**, is a tough, outer covering of the eyeball. The sclera gives the eye its shape and helps to protect the delicate inner parts.
- The blue covering over 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 to focus. The cornea gives a larger contribution to the total refraction than the lens. The curvature of the cornea is fixed while that of the lens is changeable. In your cow's eye, the cornea may be cloudy.
- 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 in the middle of the iris. At 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 your fingers. If you squeeze the optic nerve, you may get some white goop. That is myelin, the fatty layer that surrounds each fiber of the nerve. It is the nerve that transmits visual information from the eye to the brain.

- List two functions of the sclera.

The sclera gives the eye its shape and it also helps to protect the delicate inner parts.

- The cornea covers and helps protect the eye. List two other functions of the cornea.

The cornea refracts light and helps the eye to focus.

- What is the function of the optic nerve?

The nerve transmits visual information from the eye to the brain.



Anatomy Lab Eye Dissection Answers

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Wistreich**



Anatomy Lab Eye Dissection Answers:

Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart Exploring Anatomy Physiology in the Laboratory 3e **A Laboratory Guide for the Dissection of the Cat** Frederic Poole Gorham, Ralph Winfred Tower, 1895

Anatomy and Physiology Laboratory Textbook Harold J. Benson, Arthur Talaro, Kathleen P. Talaro, Stanley E. Gunstream, 1992-10 This laboratory manual is ideal for introductory two semester anatomy and physiology students This new edition works well with any textbook and includes complete explanations of essential information Clear step by step procedures for each exercise are accompanied by detailed illustrations and labeling exercises The main dissection specimen is the cat **Laboratory Guide to Vertebrate Dissection for Students of Anatomy** Arthur Beeny Appleton, 1929 As its title indicates this is a book for use in a practical comparative anatomy course It is intended for a somewhat unusual class of student and consequently its contents outlook and method of treatment are unlike those of the standard texts in this subject As stated in the preface it is assumed that the student has already done a course in elementary zoology including the usual vertebrate types and has also examined in more detail a mammal Unless this mammal were man a number of comparisons in the book would be missed To obtain full benefit from it the student should obviously have taken the preliminary medical studies including a fair amount of human anatomy This is not meant to imply that the student of advanced zoology cannot get many useful hints and fresh points of view from its pages he undoubtedly can The types treated in a series of regional dissections are the lamprey the dogfish *Squalus Necturus* the lizard and the dog As it is intended for assistance in dissection information regarding osteology and the details of the central nervous system have been purposely omitted and conversely the muscles are treated somewhat more fully than is customary *Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections* Patricia J. Donnelly, George A. Wistreich, 1993 **Fundamentals of Anatomy and Physiology** Roberta M. Meehan, 1997-08 Lab courses in the fundamentals of anatomy and physiology This laboratory textbook is written to accompany Fundamentals of Anatomy and Physiology Fourth Edition by Frederic Martini It includes 70 exercises exploring the concepts integral to an understanding of anatomy and physiology Ideal for laboratory settings that emphasize hands on learning this manual is organized to provide maximum flexibility Exercises are short enough to be mixed and matched and both cat and fetal pig dissection are included **The Science Teacher's Toolbox** Tara C. Dale, Mandi S. White, 2020-04-28 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise

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Gray's Clinical Photographic Dissector of the Human Body, 3rd South Asia Edition - E-Book Raveendranath Veeramani, Nachiket Shankar, 2025-05-31 The Third South Asia Edition of Gray s Photographic Dissector of the Human Body has been thoroughly revised to meet the needs of first year undergraduate medical students in India while retaining the core elements of the original edition Designed to align with the latest educational standards and address the challenges faced by students this edition combines clarity practicality and clinical relevance to make the study of anatomy engaging and effective Student centred approach Simplified language and concise content tailored to the needs of students with time constraints and language challenges Linking with competencies Each chapter begins with a list of relevant competencies from the Graduate Medical Education Regulations 2024 by the National Medical Commission ensuring alignment with the latest curriculum Structured dissection tables Step by step dissection guides provide clear systematic instructions for each region of the body making the dissection process more efficient Level based learning Structures to be identified are categorized into three levels Level 1 must identify Level 2 good to identify and Level 3 nice to identify helping students prioritize essential structures while encouraging deeper exploration Enhanced visual guidance Carefully selected high quality dissection photographs from the original edition with Level 1 labels highlighted for easy identification Self assessment tools Identification checklists for quick review and selected figures for self assessment Clinical applications Summary tables highlighting key concepts structures and their clinical relevance to bridge the gap between anatomy and medical practice Digital resources Complementary ebook and 60 prosection videos have been provided on MedEnact

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