

Topic: life science, eye

Overview

The activities in this lesson will enable students to become familiar with the structure, function, and processes of the mammalian eye. Students will dissect a cow eye. This lesson utilizes materials taken from teacher kit of Physical Science, Virginia Edition. Holt, Rhinehart, Winston. 2004

Grade 8

Time Allotment

Five to ten 45-minute periods

Learning Objectives

On completion of this lesson students will be able to:

- identify the parts of an eye.
- dissect a cow eye.
- identify two types of lenses and how they are used to correct vision problems.
- identify the Electromagnetic Spectrum

This lesson addresses Va. SOLs:

- Science: PS. 1a, b, c, d, PS. 9
- English: 8.6 a, g, h, 8.7 c, d, e

Media Components

- Digital Cameras (4)
- 5–10 floppy disks
- LCD Projector
- Computer (with Internet connection)
- Overhead projector
- Elmo Document Camera
- Proscope
- TV
- Biologix: The Eye: Vision and Perception. AGC Educational Media, 1997. United Learning. 21 June 05. <http://va.unitedstreaming.com>. Segments: The Eye & Vision Introduction (1:52), The Role of Our Eyes In Our Stimulus-Response Feedback System (00:49), Dissection of an Eye (05:59), Review of Structures in a Mammalian Eye (01:26), Light Enters the Eye at Different Angles (00:36), Eye Defects (02:04), Properties of Vision: How the Eye Senses Information (04:19), How the Eye Relays Information to the Brain (01:30).

- Websites:

1: <http://sps.k12.ar.us/massengale/Eye%20dissection.htm> demonstrates cow