

## Core Skills Analysis

### Biology/Anatomy

- Learned the anatomical parts of the eye, including how a sheep's eye structure compares and contrasts with a human eye, highlighting both similarities and differences.
- Developed an understanding of the function each part of the eye serves through hands-on dissection preparation and observation.
- Explored common eye diseases affecting both sheep and humans, gaining insight into shared vulnerabilities and species-specific conditions.
- Enhanced observational skills and scientific vocabulary related to eye anatomy and pathology.

### Tips

To deepen understanding of eye anatomy and health, consider incorporating multimedia resources like detailed videos or 3D models of both sheep and human eyes to visualize internal structures dynamically. Engage in comparative studies by researching animals with different vision capabilities such as nocturnal species or birds to extend the concept of eye adaptation. Additionally, create a simple home experiment to simulate vision issues, like wearing glasses that blur vision to empathize with common diseases like cataracts. Finally, linking eye function to daily activities like focusing or adjusting to light can personalize learning and reinforce practical relevance.

### Book Recommendations

- [The Eye: How It Works](#) by David Burnie: An accessible book explaining the complex workings of the human eye using clear illustrations and simple language.
- [Sheep and Their Eyes: Discovering Animal Parts](#) by Elaine Landau: A child-friendly introduction to sheep anatomy focusing on eyes with comparisons to human eyes.
- [Why Do Cats Have Vertical Pupils?: And Other Eye Questions](#) by Ann Funke: Explores various animal eyes, their structures, and adaptive reasons behind their unique features.

### Learning Standards

- CCSS.ELA-LITERACY.RI.4.3: Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.
- NGSS 4-LS1-1: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
- NGSS MS-LS1-3: Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.

### Try This Next

- Create a labeled diagram worksheet comparing sheep and human eyes to reinforce anatomical differences and similarities.
- Write a short report or presentation on a chosen eye disease affecting humans and sheep, including symptoms and prevention.

### Growth Beyond Academics

This activity likely fostered Michele's curiosity and attention to detail while handling delicate dissection materials, supporting growth in scientific observation skills and patience. Exploring diseases may have also built empathy and a sense of responsibility for animal and human health, encouraging critical thinking about biology's real-world impact.