



SfS Away from the Classroom!

AP14: Eye Dissection (Recommended for Grades 3-8)

Please use the following resources to learn about cow eye anatomy!

Watch this Video:

<https://www.pbslearningmedia.org/resource/idptv11.sci.life.stru.living.d4keye/eyes/>

Answer these questions:

- How does the iris respond to different amounts of light?
- What structure(s) in the eye help you detect black, white and low light? Colors and bright lights?
- How do other parts of our face protect our eyes?

Activities:

Follow these steps to conduct your own virtual cow eye dissection

https://www.exploratorium.edu/learning_studio/cow_eye/doit.html

Follow these directions to create a pinhole camera to learn more about the eye

https://www.exploratorium.edu/science_explorer/pringles_pinhole.html

You will need:

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|---|--|--|
| <ul style="list-style-type: none">• Empty pringles can or paper towel roll• Marker | <ul style="list-style-type: none">• X-acto knife• Thumbtack or pushpin• Masking tape | <ul style="list-style-type: none">• Aluminum foil• Scissors• Ruler |
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Make observations & use Claims, Evidence, and Reasoning!

1. **Claim:** The different structures of the eye each play an important role in helping us see and process information
 - **Evidence:**
 - **Reasoning:**
2. **Claim:** Images enter the eye upside-down
 - **Evidence:**
 - **Reasoning:**