

# COW EYE DISSECTION



Cow Eye Dissection Agenda by Deanna McBeath is licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).

# Dissection Day Agenda

1. Get yourself **READY**: go to bathroom, drink water, roll up sleeves, & tie back long hair
2. Find your table and partner
3. **RESPECT** for our specimens
4. Dissection **SAFETY** guidelines
5. Learn about dissection **TOOLS**
6. **Eye Diagram** overview & **Key Vocabulary**
7. Let's **DISSECT** THESE EYES!
8. Wash hands and **CLEAN UP** our laboratory

# RESPECT:

re: again

spec: to see

Look at your specimen - then  
**SEE** it **AGAIN**.

This was **once** alive.

We treat specimens with respect -  
the respect we have for **LIFE**.

# Dissection SAFETY

- Follow all instructions given by your teacher.
- Inform your teacher if you begin to feel unwell for any reason. You may step out at any time.
- Avoid contact with preservative chemicals. Rinse the specimens completely before dissection. Use gloves.
- Know where the eyewash fountain is if needed.
- Wear chemical-splash safety goggles to prevent the splashing of any chemicals into the eyes.
- Hold the specimen a safe distance away from your face and eyes while using any tools.

# Dissection SAFETY

- Handle all tools, especially those with sharp points and edges, with extreme care.
- Always cut away from your body and away from others.
- Never ingest (eat) specimen parts.
- All parts of the dissection must remain within the dissecting pan.
- Properly dispose of dissected materials.
- Clean up the work area and return all equipment to the proper place when the dissection is completed.
- Wash hands with soap and water after each dissection.

# Dissection Tools



Scissors



Forceps



Probe



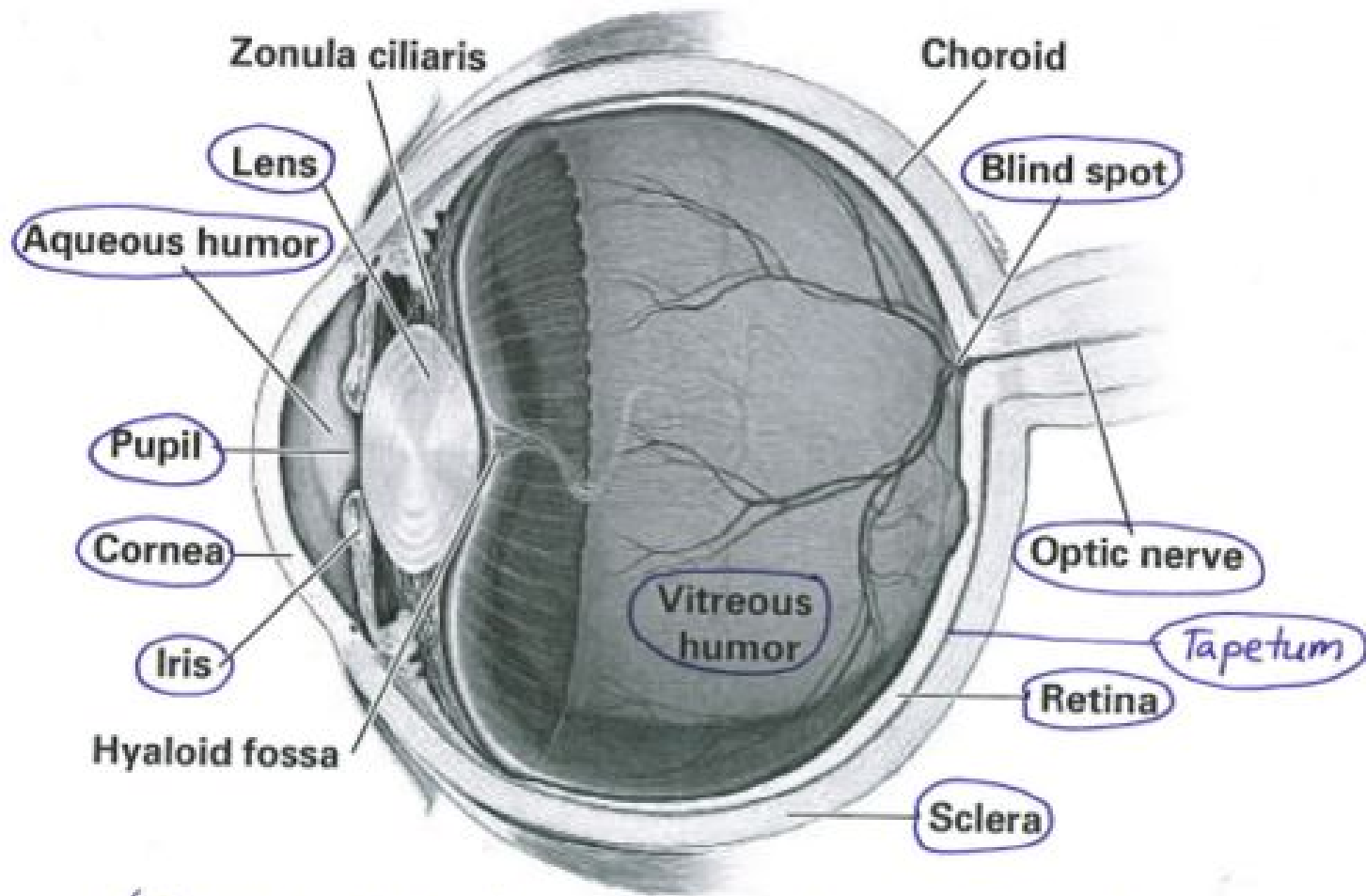
Needle



Scalpel



# EYE DIAGRAM



(The circled words are required vocabulary.)

# KEY VOCABULARY

muscle

fat

sclera

cornea

iris

pupil

incision

aqueous humor

lens

vitreous humor

retina

blind spot

optic nerve

tapetum

reflect (bounce)

refract (bend)

rods and cones

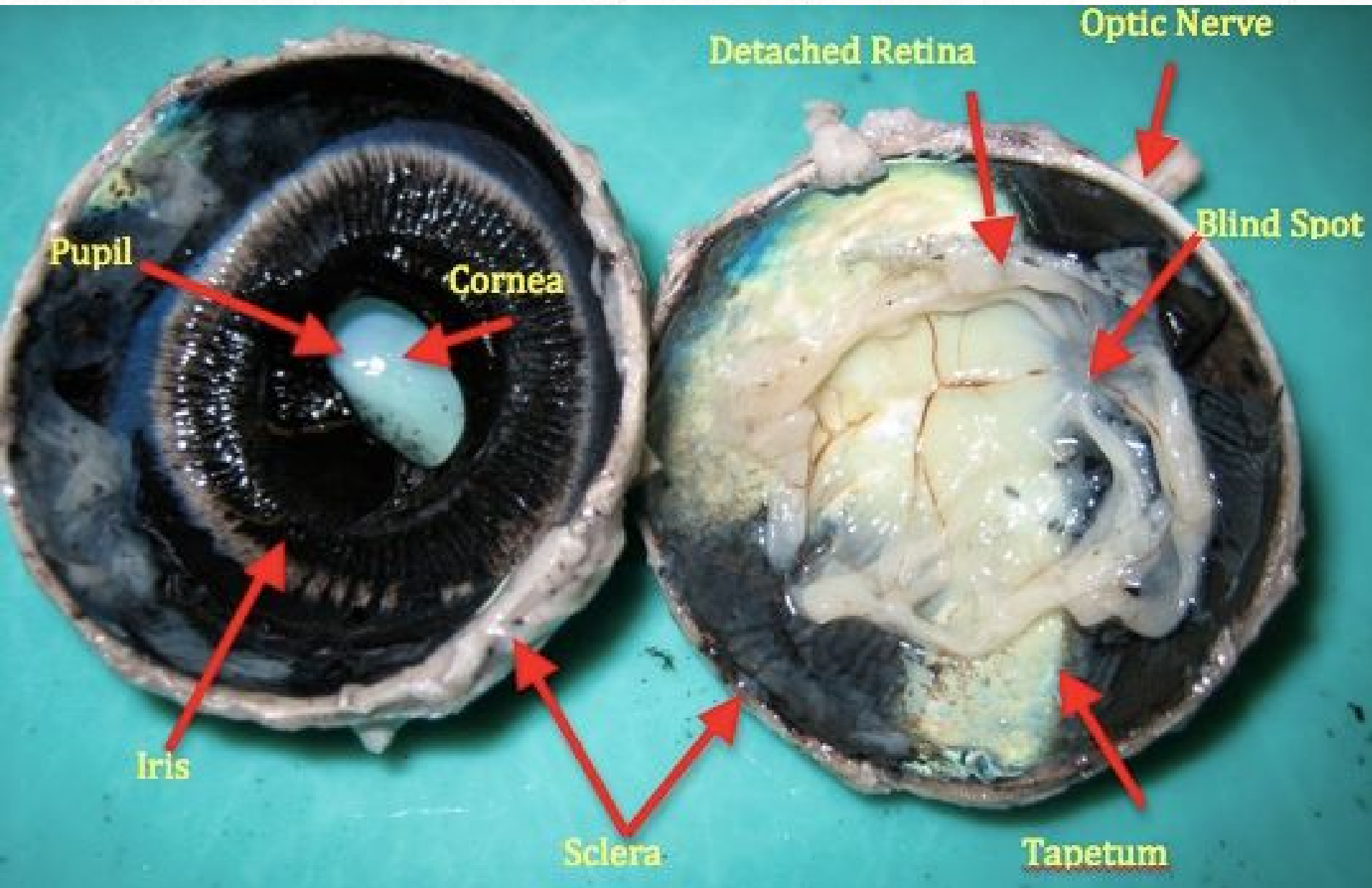
focus

photon





LET US  
BEGIN



# EYE PARTS:



1. Cornea

2. Sclera

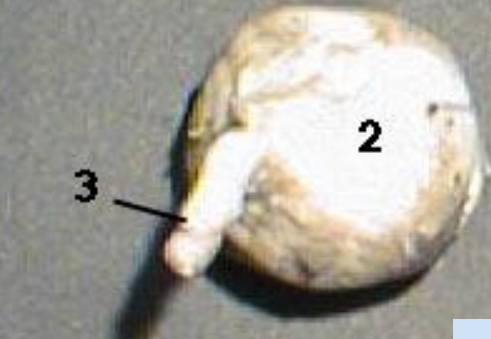
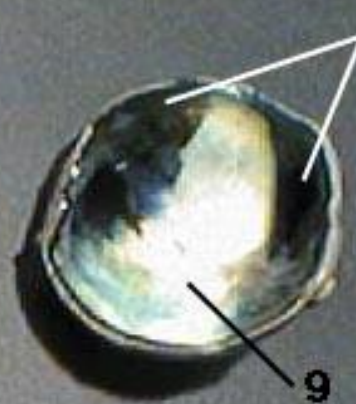


4. Iris

5. Pupil



9. Tapetum



3. Optic Nerve

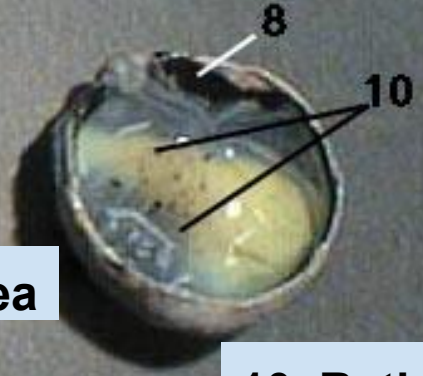


11. Lens

12. Vitreous Humor



1. Cornea



10. Retina

Not shown:  
Aqueous Humor, the watery substance between the cornea and the lens

# Dissection CLEANUP

- Properly dispose of dissected materials.
  - All eye parts must be thrown away in the special designated trash bag. Also throw away paper towel and wax paper from the dissection pan.
  - DO NOT THROW AWAY YOUR GLOVES YET.
- Clean up the work area and return all equipment to the proper place when the dissection is completed.
  - Return all metal tools to teacher's pan at front table.
  - Wipe your table area with disinfecting wipe.
- Remove gloves and wash hands with soap and water after the dissection.

Thank you for  
participating  
and have  
a great day!