| Name: | Group: | Date: | LAB 64 |
|-------|--------|-------|---------------|
| | | | OBSERVATION |

DISSECTING THE EYE OF A MAMMAL

STUDENT BOOK | Chapter 7, page 213

Goal

Locate and observe the structures of the eye.

Observation criteria

- 1. Identify the main structures of the eye.
- **2.** In the table below, record the characteristics that will help you to identify each of these structures when observed during this lab.

| Structure | Characteristics | | |
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Materials

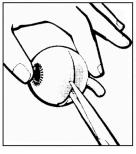
- gloves
- eye of a mammal
- · scalpel or knife
- · dissecting forceps
- dissecting scissors
- · dissecting pan
- · 4 watch glasses or Petri dishes

Procedure



- 1. Observe the exterior of the eye. Note the overall shape.
- 2. Locate and identify the structures connected around the eye.
- 3. Locate the optic nerve. Note the colour and texture.
- 4. Locate the iris. Note the colour and shape.
- **5.** With the scalpel, make an incision around the eyeball as shown in the illustration at top.
- **6.** Collect the liquid that seeps out of the eye on one watch glass. Note the name, colour and texture of the liquid.
- **7.** With the dissecting scissors, separate the eye into two pieces by cutting along the incision made in step 5 as shown in the illustration at bottom.
- **8.** With the dissecting forceps, carefully detach the internal membrane at the back of the eye. Identify the structure attached to it.
- **9.** Spread out the membrane collected in step 8 on the second watch glass. Note the name, colour, thickness and texture.
- **10.** With the dissecting forceps, carefully detach the second internal membrane at the back of the eye.
- **11.** Spread out the membrane collected in step 10 on the third watch glass. Note the name, colour, thickness and texture.
- **12.** Observe the remaining internal membrane at the back of the eye. Note the name, colour, thickness and texture.
- **13.** At the front of the eye, locate the membrane in front of the iris. Note the name, shape and colour.
- **14.** Collect the liquid in front of the iris on the fourth watch glass. Note the name, colour and texture of the liquid.
- 15. Locate the lens and remove it from the eye. It is possible that the lens may have seeped out with the liquid collected in step 14.
- **16.** Observe and note the colour, shape and texture of the lens.
- **17.** Dispose of the eye as directed by your lab instructor.
- 18. Clean up and put away materials.







Observatory/Guide

| ame: | _ Group: | Date: |
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Observations

Record your observations in the table below. Give the table a title.

Title:

| Structure | Observations | |
|--------------------------------|--------------|--|
| Overall shape of eye | | |
| Structures attached around eye | | |
| Optic nerve | Colour: | |
| | Texture: | |
| Iris | Colour: | |
| | Shape: | |
| Liquid that fills eyeball | Name: | |
| | Colour: | |
| | Texture: | |
| First membrane at rear of eye | Name: | |
| | Colour: | |
| | Thickness: | |
| | Texture: | |
| Second membrane at rear of eye | Name: | |
| | Colour: | |
| | Thickness: | |
| | Texture: | |
| Third membrane at rear of eye | Name: | |
| | Colour: | |
| | Thickness: | |
| | Texture: | |
| Membrane in front of iris | Name: | |
| | Shape: | |
| | Colour: | |
| Liquid in front of iris | Name: | |
| | Colour: | |
| | Texture: | |
| Lens | Colour: | |
| | Shape: | |
| | Texture: | |

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