

# Cow Eye Dissection Worksheet



1. What parts of the eye did you identify?

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_
- g. \_\_\_\_\_

2. Match the following parts of the eye to their function: (sclera, pupil, iris, retina, lens, optic nerve & tapetum)

- a. \_\_\_\_\_ This is the tough outer section of the eye
- b. \_\_\_\_\_ The colored portion of the eye.
- c. \_\_\_\_\_ Changes shape to focus light on the retina.
- d. \_\_\_\_\_ Opening in the iris that light goes through.
- e. \_\_\_\_\_ Iridescent & found in nocturnal animals.
- f. \_\_\_\_\_ Carries messages to the brain
- g. \_\_\_\_\_ Where light is focused at the back of eye

3. What did the lens look like? \_\_\_\_\_

4. Why wasn't the cornea clear? \_\_\_\_\_

\_\_\_\_\_

5. How are cow eyes and human eyes different?

- a. One difference between the \_\_\_\_\_ eye and the human eye is the shape of the \_\_\_\_\_. The cow's is \_\_\_\_\_. A human's \_\_\_\_\_.
- b. Another difference between the cow's eye and the human eye is that cow's can't see \_\_\_\_\_. They can only see \_\_\_\_\_. Cow's do not have \_\_\_\_\_ in their retina.
- c. A cow's cornea has about \_\_\_\_\_ layers of material. People have \_\_\_\_\_ layers. The cow needs these extra layers of \_\_\_\_\_ because it spends so much time grazing close to the ground, where its eyes could be \_\_\_\_\_ by sticks or other objects.
- d. The \_\_\_\_\_ is the part of the eye that gives us brown, blue, or green eyes. All cows have \_\_\_\_\_ eyes.
- e. The shiny blue-green \_\_\_\_\_ helps the cow see at night. The tapetum helps animals see at \_\_\_\_\_ by \_\_\_\_\_ the light entering the eye back at the \_\_\_\_\_ a second time. Many other \_\_\_\_\_ have a tapetum (such as dogs, cats, horses and cows)