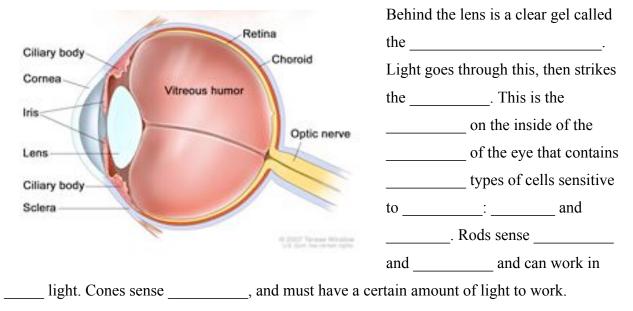
Eye Structure and Seeing Light—Notes Outline

Light	your eye through a		_ portion of the	(the tou	gh, white,
outer covering of the eye), called the			. The cornea is	, so it slig	ghtly
the	light as it goes thr	ough. Light the	en passes through t	he	
(a clear fluid in	the	_used for eye			
) an	d then through the	·		Contraction of the second	
The pupil is sim	ply a	in the		-	
Th	e iris is a	that	Eyelid	Contraction of the second	
controls how the p		il is. It is the	Pupil	~ (•)	1
part of the eye. In bright light, the			Sciera		2
ris and the pupil gets			Iris	and the addition of a start of the	
In low light, the iris					
and	the pupil gets				
Directly behind the iris is the This s			tructure changes _	to	
light so that we can see		Its shape is	, mear	ing it curves	on
both sides. The	musc	les above and b	elow the lens cont	rol the	_ of the
lens.					



kinds of cones: One senses wavelengths of light, in the range, and are called L-cones. The second type sense the wavelengths of light, mainly in the _____ range, and are called _____. The third kind _____, and sense the shorter wavelengths of light, mostly in the _____ range. The rods and cones send messages through the _____, which carries the information to the _____. The sight center of your brain is located in the _____, basically ______. This is why a blow to the back of your head can result in blindness or other vision problems.

Causes of Color Blindness

- 1. _____: You are born with these types. Sometimes a type of cone is _____, or the _____, that a cone recognizes is different than normal. L-cone and M-cone problems result in _____ color blindness (the _____ common type).
- 2. : These types occur after birth. For example, accidents involving the of the brain, or Parkinson's Disease can cause

problems.

Source of images: National Cancer Institute at the National Institutes of Health http://www.cancer.gov/cancertopics/pdq/treatment/retinoblastoma/patient/page1/AllPages/Print