

Comparing the Functions of a Human Eye and a Camera

Goal • Reinforce your knowledge of the functions of parts of an eye and parts of a camera.

What to Do

Complete the following table to compare an eye with a camera. Do not write anything in the shaded boxes. For help, review pages 203, 204, and 223 of BC Science 8.

Eye		Camera	
Part	Function	Part	Function
eyelid ¹	eyes open/close to let light in	shutter	opens to take a picture
retina	receives the light / image formed	CCD	catches the image
cornea ⁵	clear covering over the eye	protective glass	lens cover protects the lens
iris	adjusts pupil depending on brightness	diaphragm	adjusts light into camera
IRIS ⁸	automatically adjusts pupil size	automatic brightness adjustment	opens and closes the diaphragm according to brightness of the subject
Lens ¹⁰	focusses the image on the retina	LENS ¹¹	focusses the image on the film
muscle	determines thickness of lens	focussing ring	adjusts for near / far objects
pupil ¹⁵	hole through which light enters the eye	aperture	hole through which light enters the camera
optic nerve ¹⁷	transmits signals from light receptors in the retina to the brain		