

An In-Depth Look at How Our Senses Work Notebook

What are the cavities called that our eyes rest in? _____

Illustrate and label the outside of an eye and include the eyelid and eyelashes, sclera, iris, and pupil. Summarize the job of each of these parts.



Eyelids & Eyelashes

Sclera

Iris

Pupil

Illustrate and label the inside of an eye and include cornea, lens, retina, optic nerve, and vitreous body. Summarize the job of each of these parts. Also summarize the job of rods and cones and draw a picture of them near the eye. Be sure to also label the iris and pupil that you wrote about previously.

Cornea

Lens

Retina

Rods & Cones

Optic Nerve

Vitreous Body (Vitreous Humor)

How do light rays normally behave? _____

What parts of the eye help bend the rays of light toward each other? _____

What does the eye do to let you see something close up? _____

What does the eye do to let you see something farther away? _____

What works together to give you depth perception? _____

Illustrate how your eye sees an image upside down.



What do we see when we "see" color? _____

Light waves are all different what? _____

What do we see when all the waves reflect back to us together in equal proportions?

What do we see when all the wavelengths are absorbed? _____

What color wavelength do we see? _____

What is visual acuity? _____

Having extra lenses, such as glasses or contact lenses, help our eyes do what?

What happens when the light rays meet at a place called the focal point before they reach the retina?

What happens when light rays reach the retina before they meet? _____

If you can see objects nearby more clearly but have trouble seeing objects far away, what do you have?

If you can see objects far away but have trouble seeing objects close to you, what do you have?

Illustrate and label diagrams that show myopia, normal sight, and hyperopia.



What is a clouded part of the lens called? _____

What is aqueous humor? _____

What is it called when the trabecular meshwork hardens and causes the fluid to build up and not drain properly?
