



The Eyes Have It!

Eyes and Ears

Objective

- **To show that we receive most of our information through our eyes and to identify how parts of the eye function.**

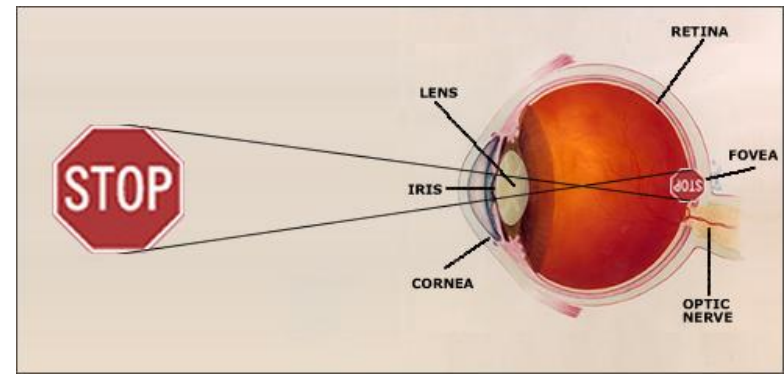
Research

- **Seeing: you “see” because the retina of your eye responds to light. Messages concerning light are then passed from the retina to the brain.**

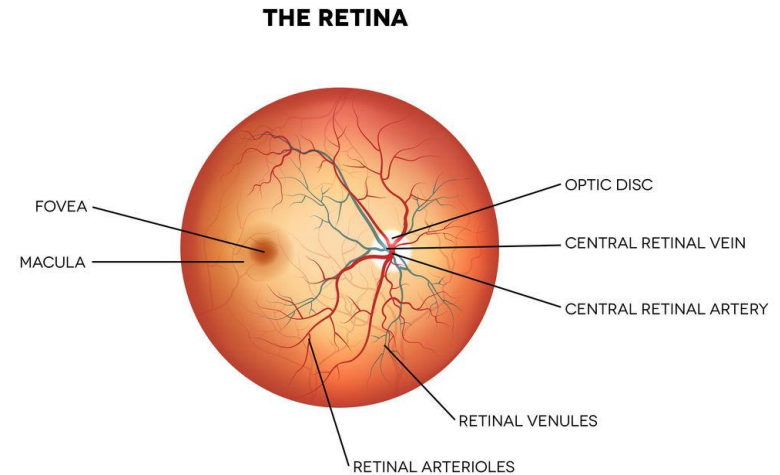


Research

- **Lens: Bends and focuses light on the retina.**



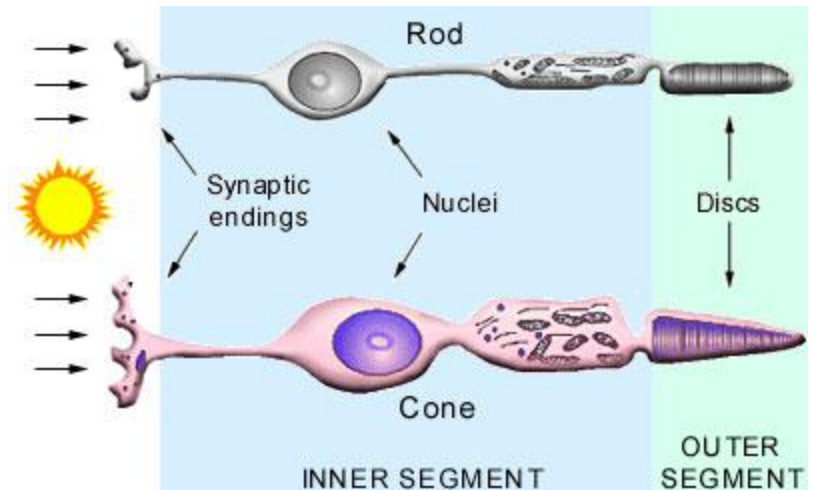
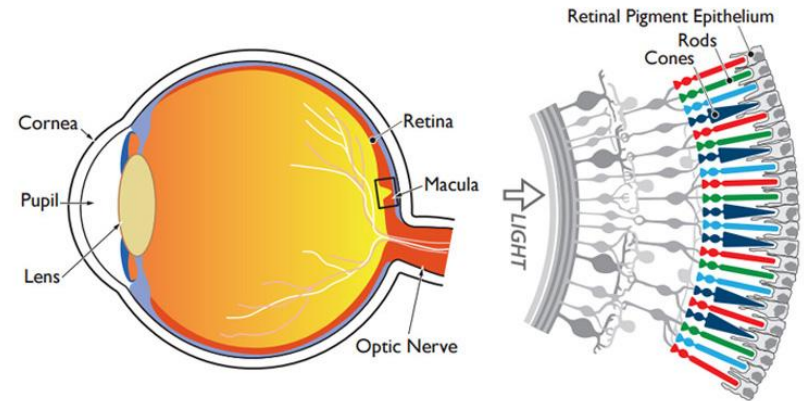
- **Retina: light that falls on it forms an image.**



Research

- **Rods: on the retina; sensitive to dim light. Detect motion.**
- **Cones: on the retina; sensitive to bright light; sense color. Cones in different areas of the retina respond to different colors.**

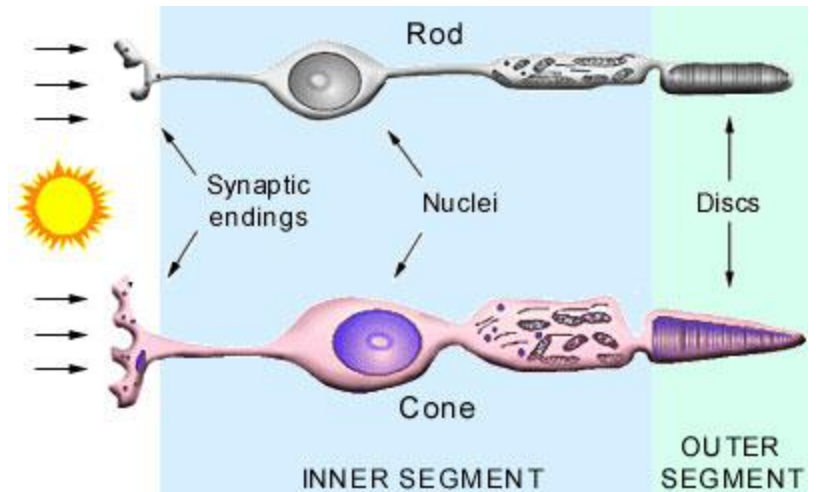
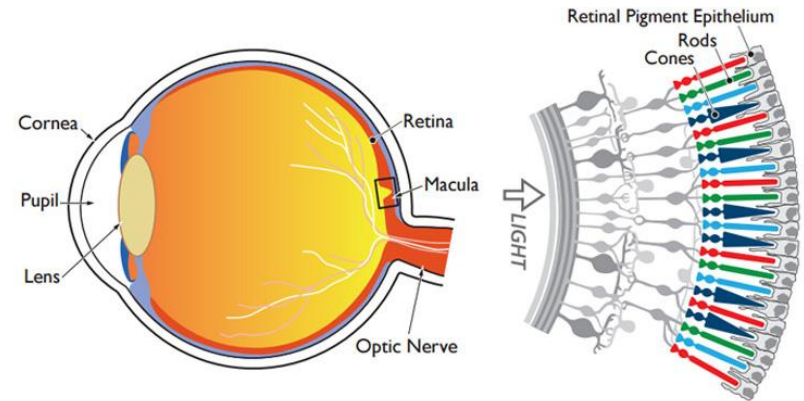
Close-up of the Retina



Research

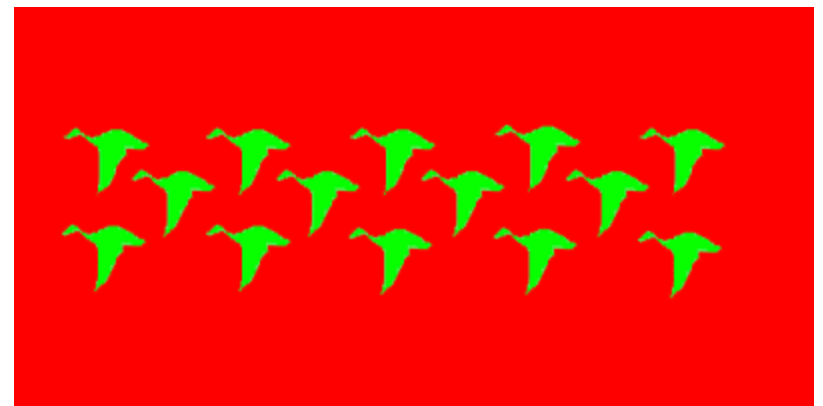
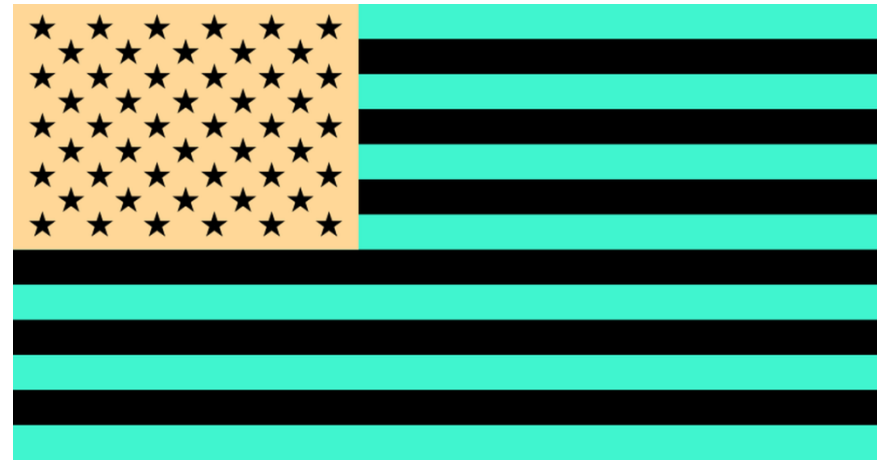
- **Tired Cones:**
When you continually stare at an object, certain cones are continually exposed to a color that they sense they become “tired” and cannot respond to that color again until they “recover”.

Close-up of the Retina



Research

- **After image: an image that you continue seeing after you stop looking at an object; Often seen in colors different from the original color. Complimentary color is seen.**



Research

- **Complimentary color:** color seen when the cones of one color are tired.
- **Illusion:** an unreal or misleading appearance or image.
- **Depth perception:** you use both eyes to figure out the position of things; **How far.**

