The Structure of the Eye

Cornea:

- Transparent
- Convex-shaped
- Protects eye
- Focus light ray onto the retina

Aqueous Humour:

- Maintains shape of eye
- Provides nutrients and O₂
- Carries waste away

Pupil:

• Opening in Iris (black)

Iris:

- Ring of muscles (coloured) Changes size of pupil to regulate amount of light entering eye
- Dim light (pupil expands) to allow more light to enter eye
- Bright light (pupil contracts) to restrict amount of light entering eye

Lens:

- Transparent
- Flexible
- Convex structure
- Focuses light onto retina
- .co.uk Lens shape changes when distance of the object being viewed changes

Ciliary Muscles:

- Attached to each end of lens
- Contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to automatically bube to see the contact and relax enabling lens to see the contract) to focus near objects onto retina, and flatten (muscles relax) to f sus fistant objects onto retina.

Vitreous Humour:

- Jelly substance
- Helps maintains

Retina:

- Layers of neural tissue
- Back of eve

Photoreceptors:

- Layer of neurons at very back, innermost part of retina
- Once activated response to light begins
- Cones Colour, fine detail
- Rods Night time vision, peripheral vision

Fovea

Has a high concentration of CONES on the retina. Straight behind the eye

Blind Spot:

Optic nerve interrupts the retina. NO photoreceptors - NO IMAGE

Characteristics of the Visual Perception System

- Visual perception system refers to the entire network of physiological (physical) structures that we use to see.
- **Structures include:**
 - 0 Eye
 - **Receptors and Photoreceptors**
 - Nerve pathways