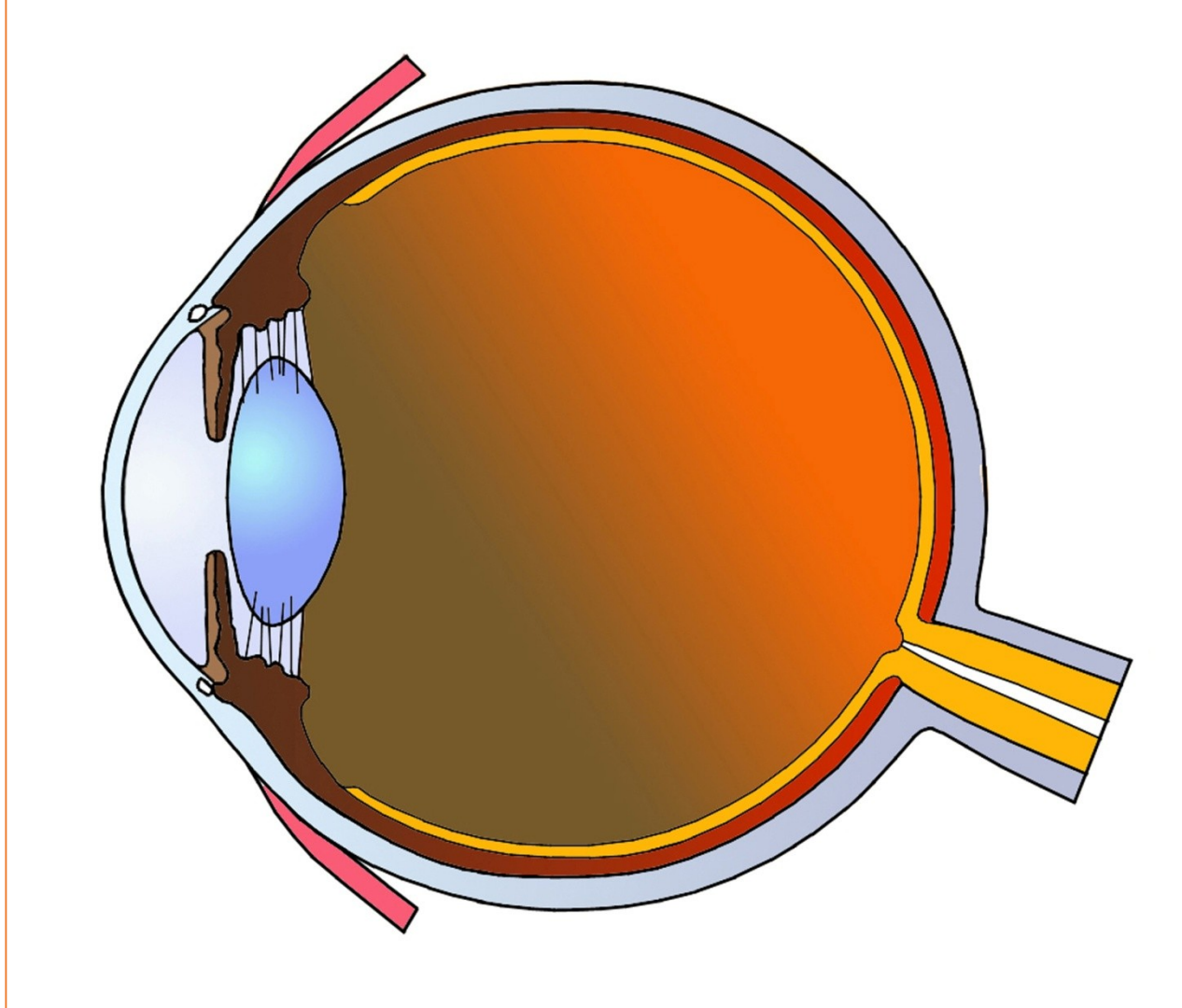
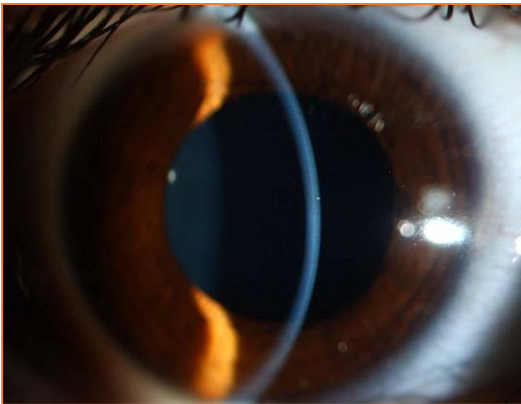
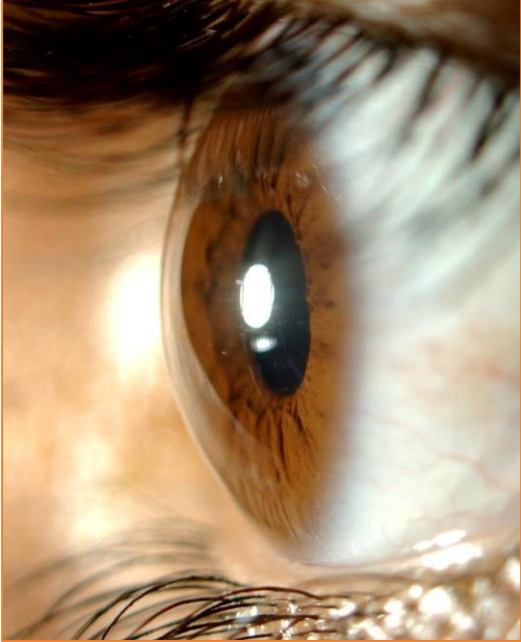
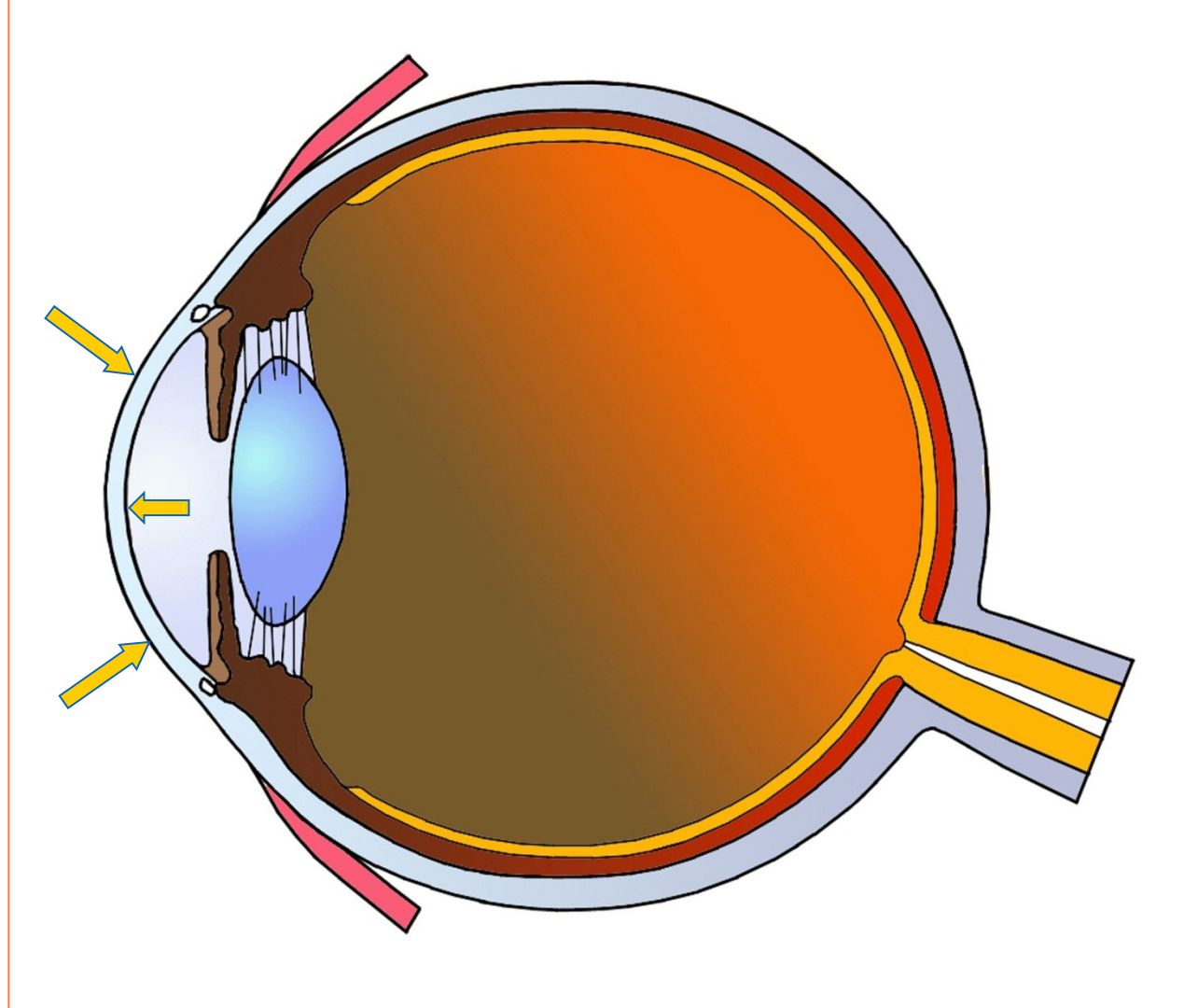
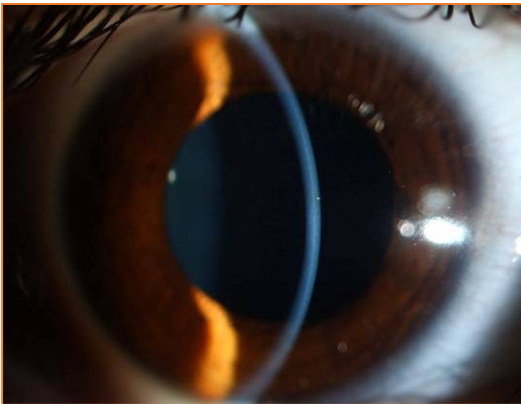
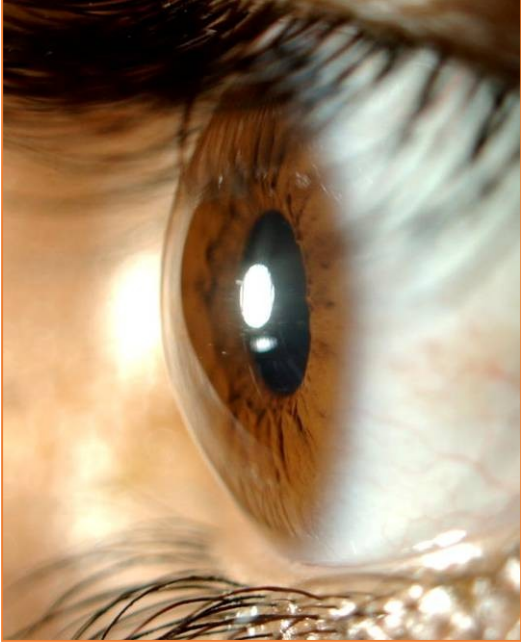


The cornea: the window of the eye

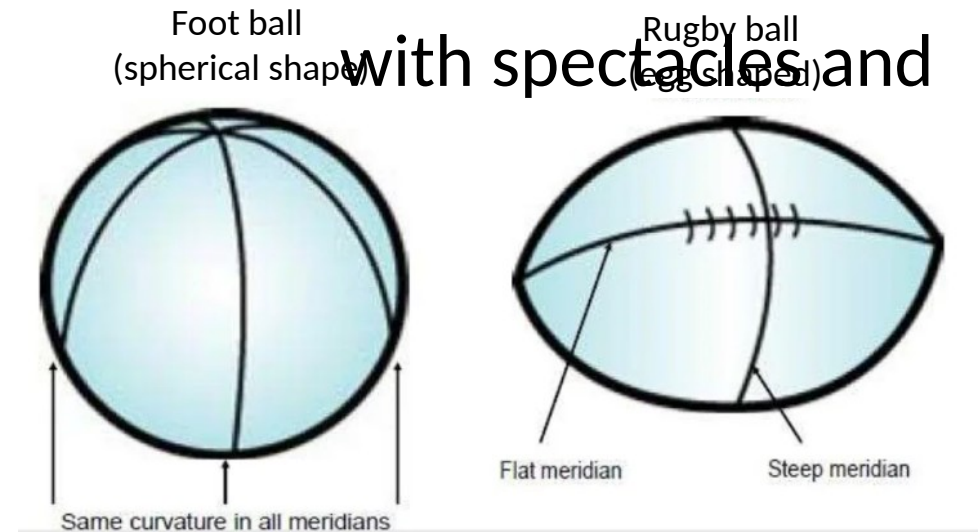


The cornea: the window of the eye



Regular astigmatism

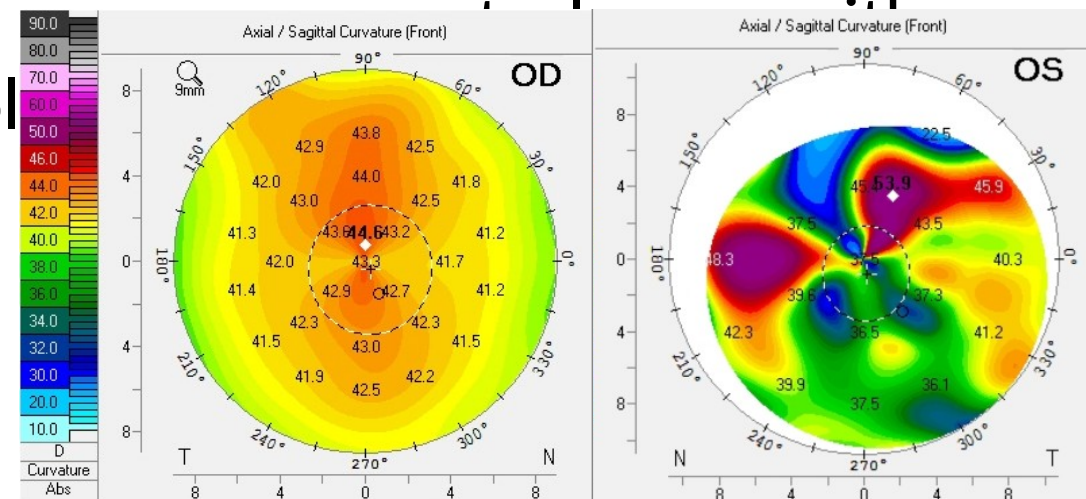
- Very common type of refractive error in normal eyes
- One meridian of the cornea is more curved than the other: as a result the curvature of the cornea looks like a rugby ball rather than a round foot ball
- This error can be easily corrected with spectacles and soft (toric) lenses



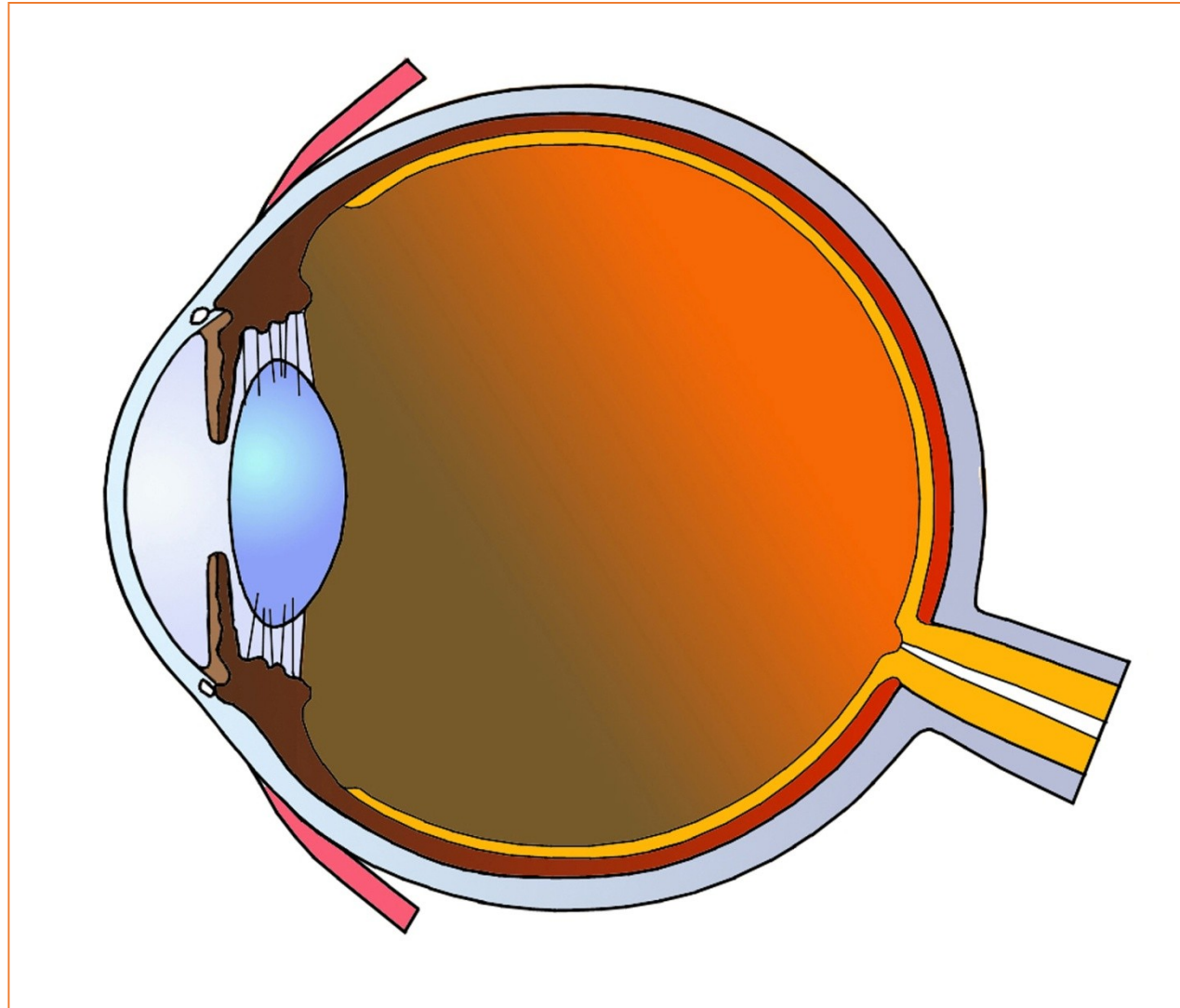
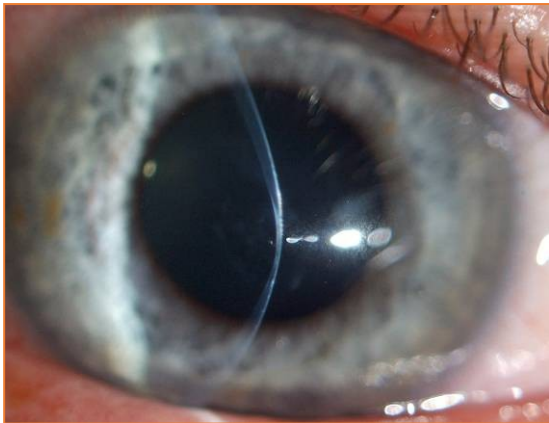
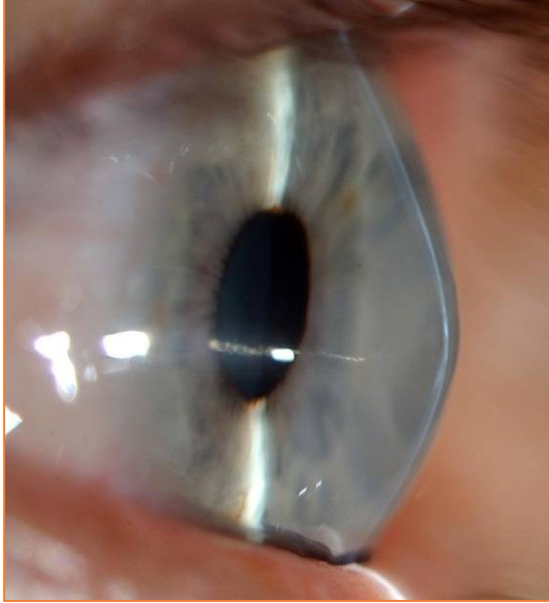
Irregular astigmatism

- Occurs only in eyes with corneal disease (keratoconus, scars,...)
- The cornea is distorted with areas of steepening and flattening occurring in a chaotic pattern
- This error cannot be corrected with soft contact lenses

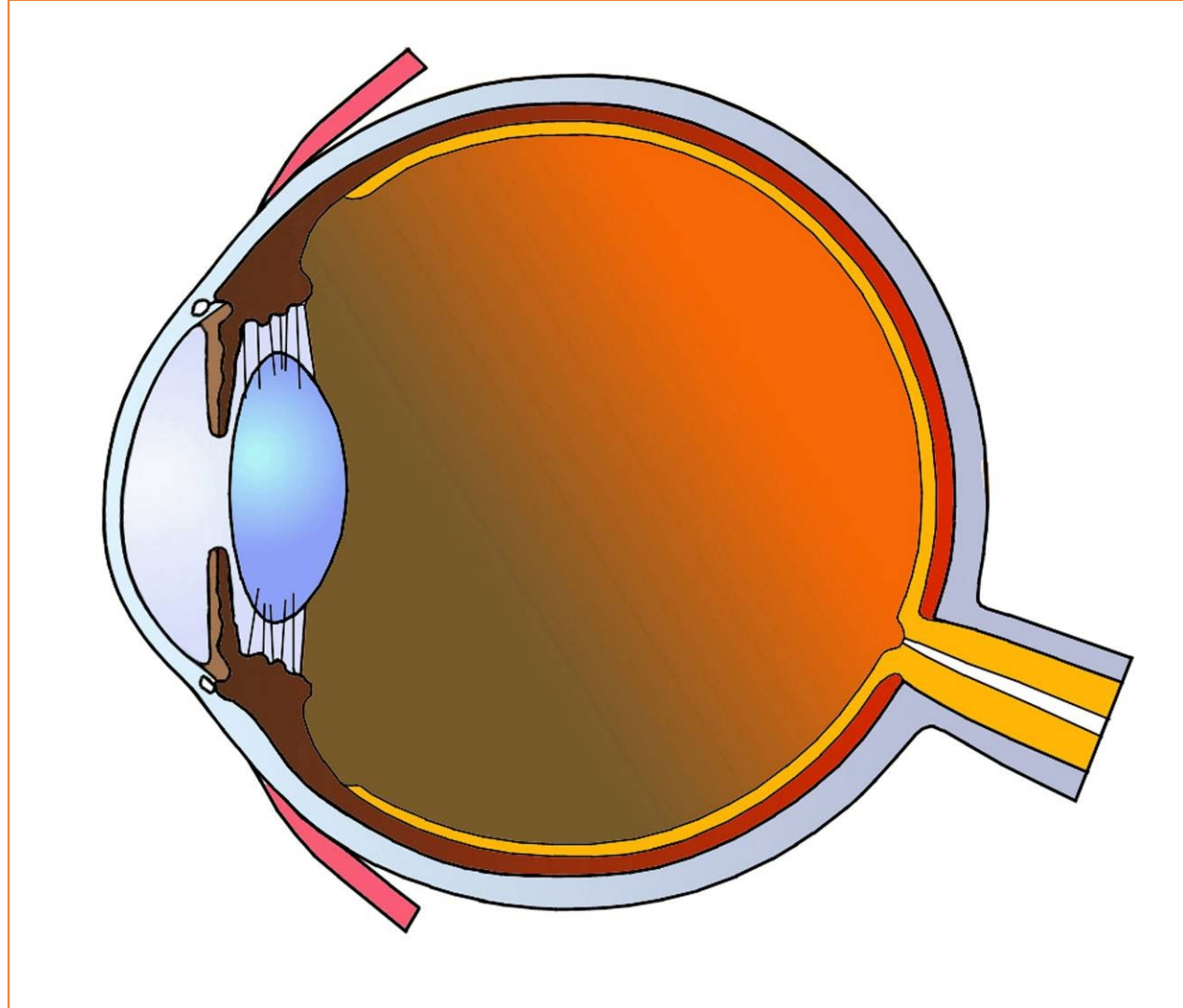
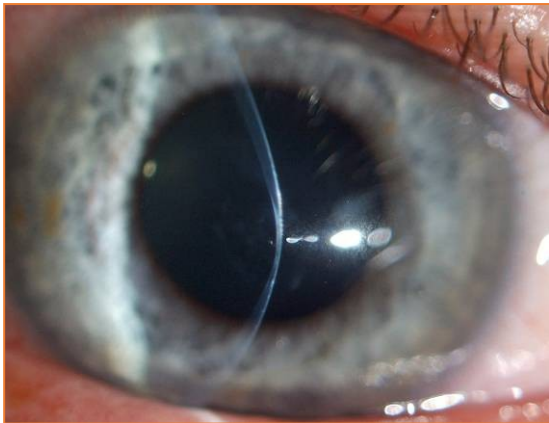
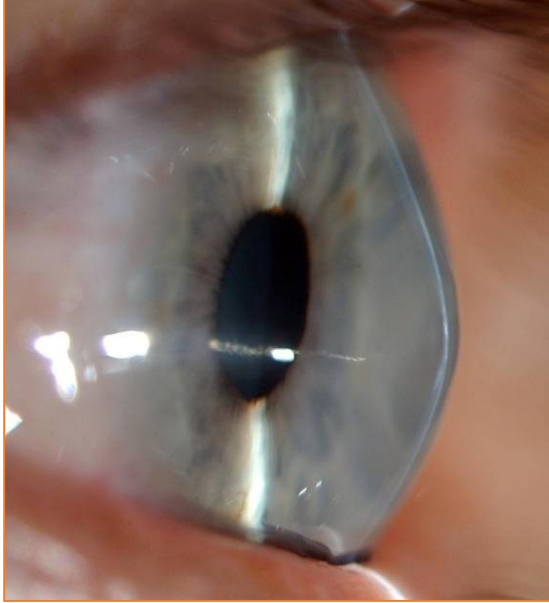
Corneal map: regular astigmatism and irregular corneal shape



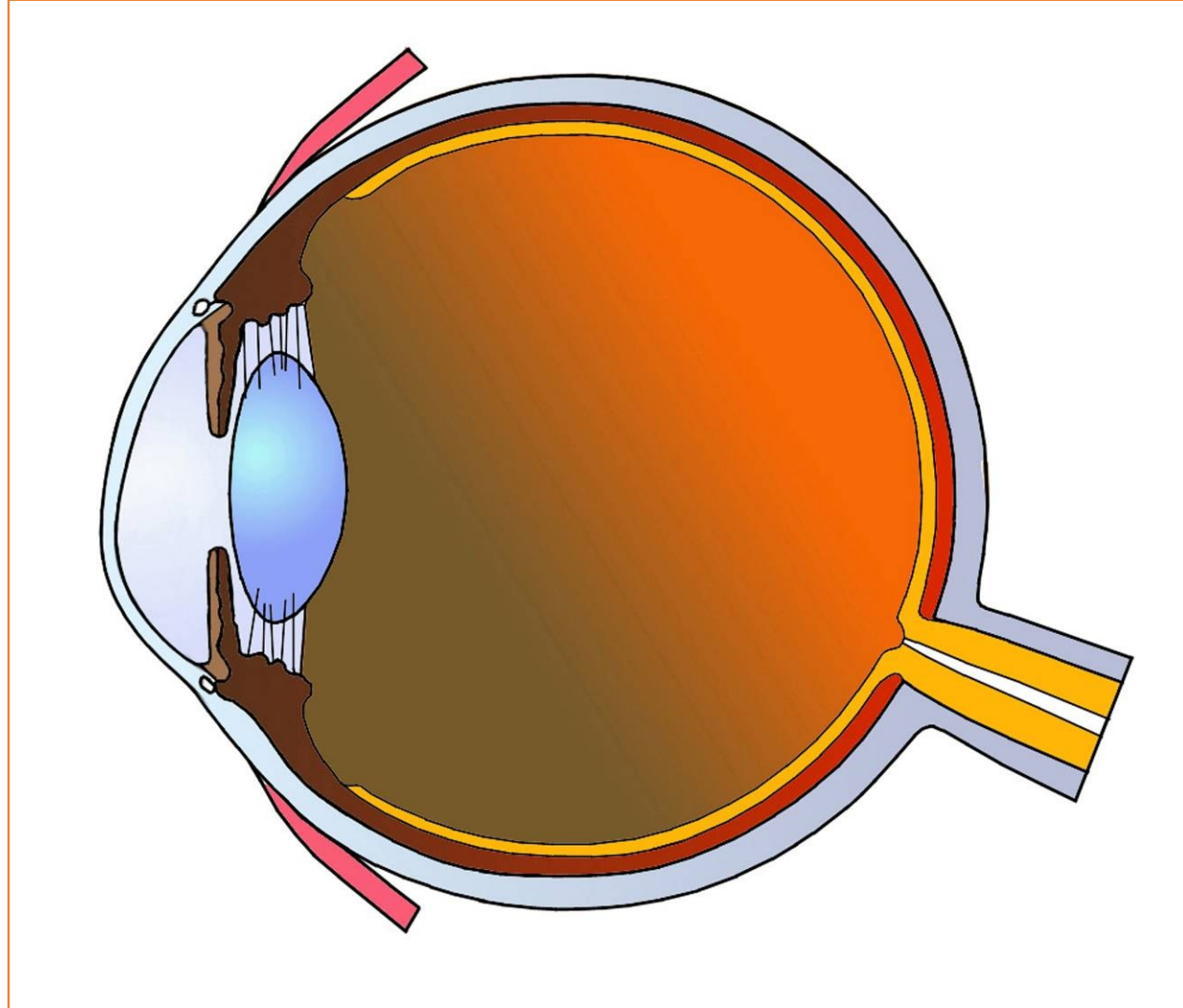
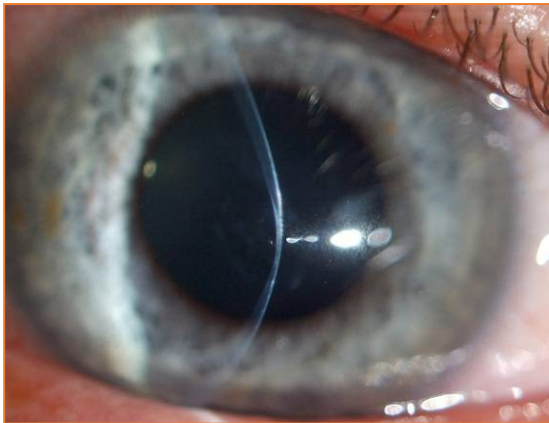
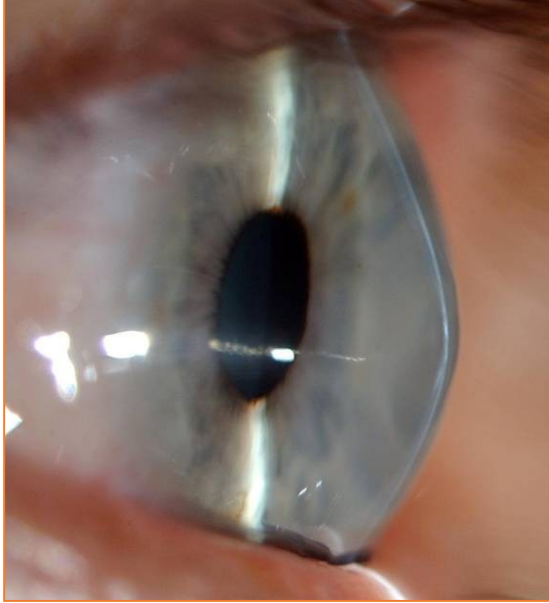
Distortion of the cornea in keratoconus



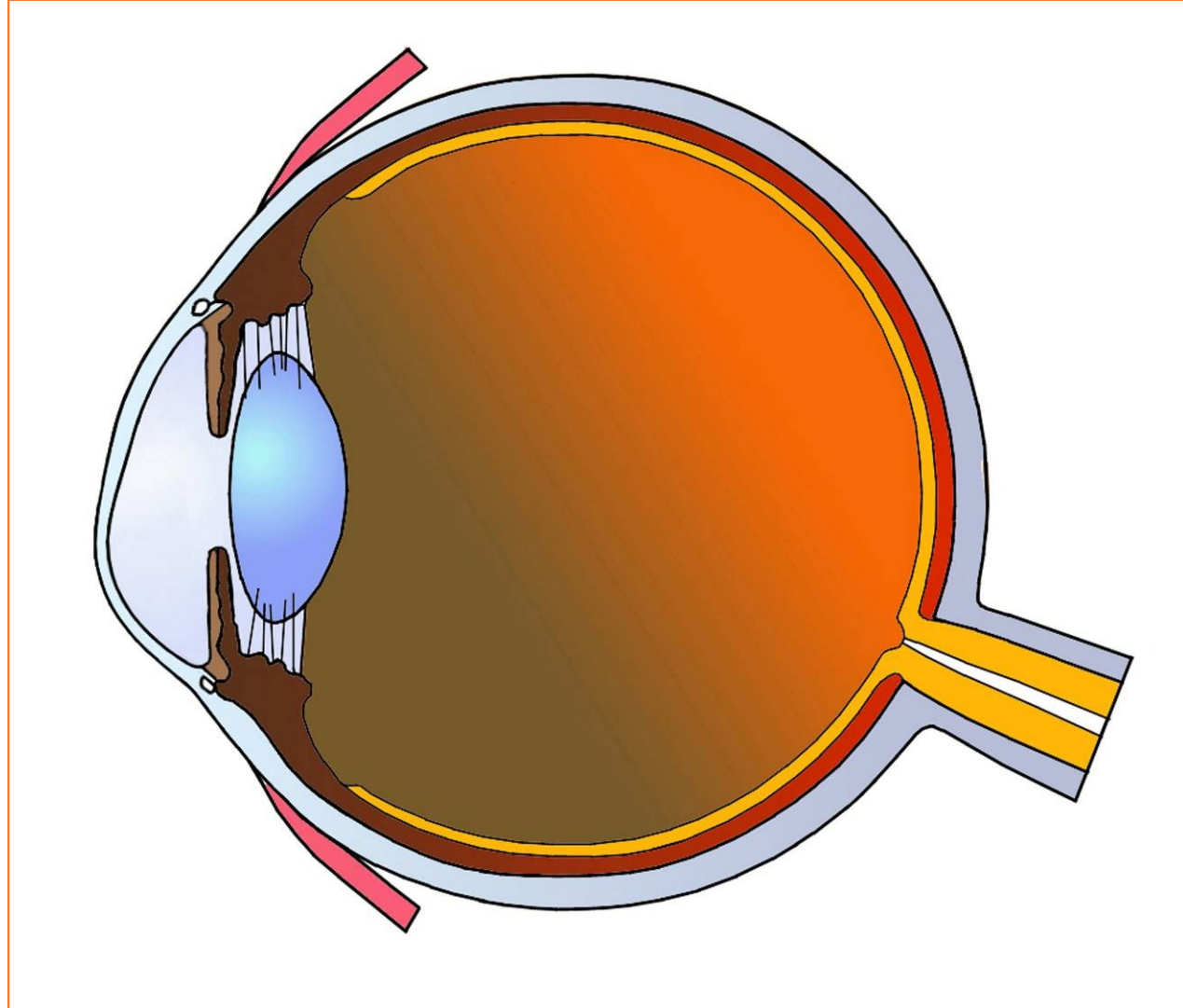
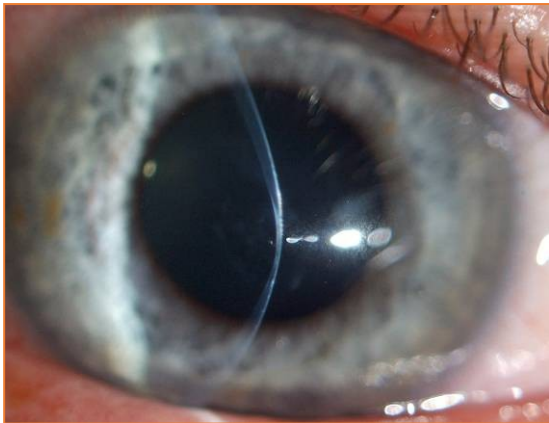
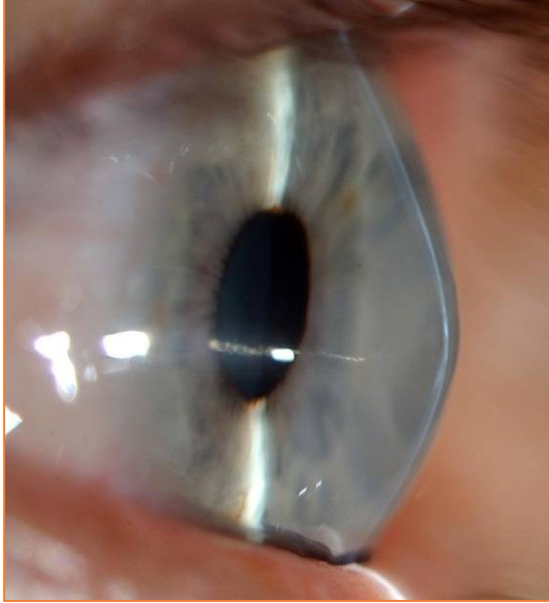
Distortion of the cornea in keratoconus



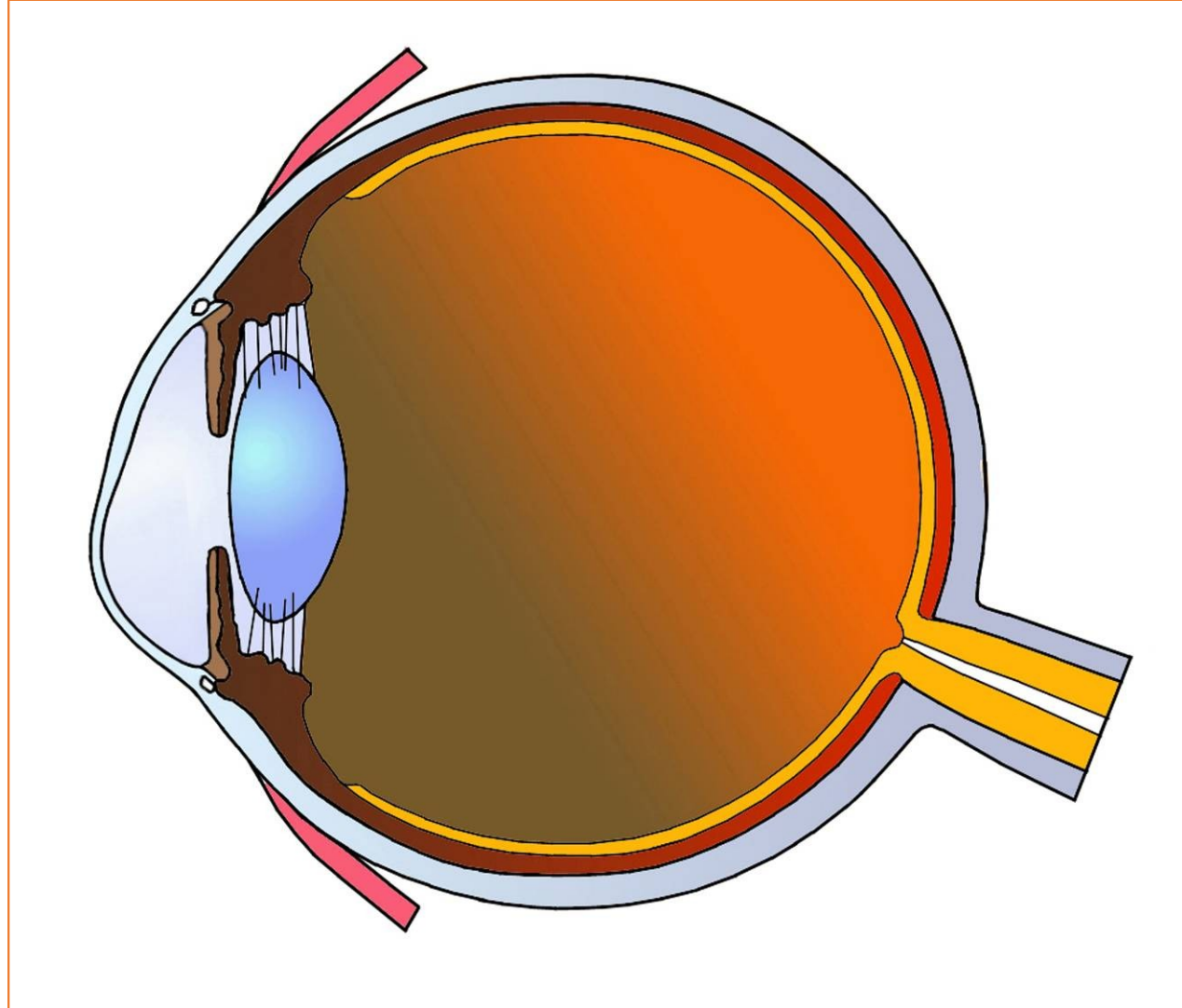
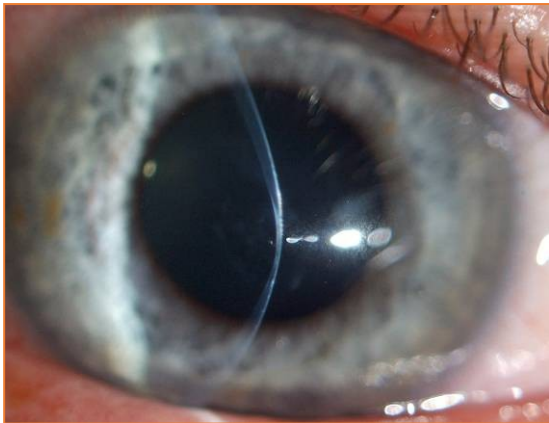
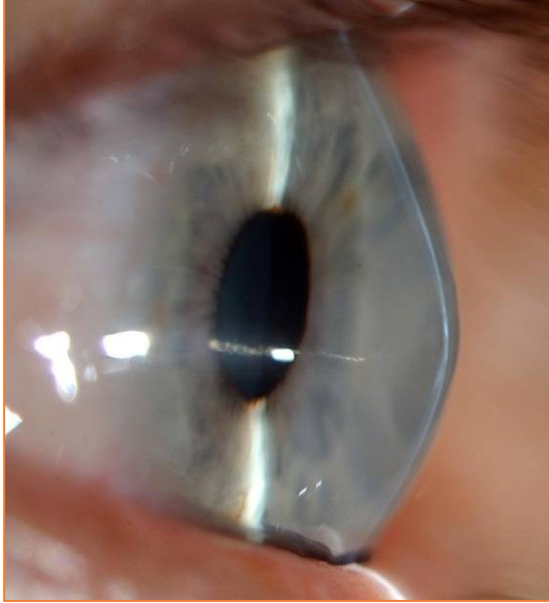
Distortion of the cornea in keratoconus



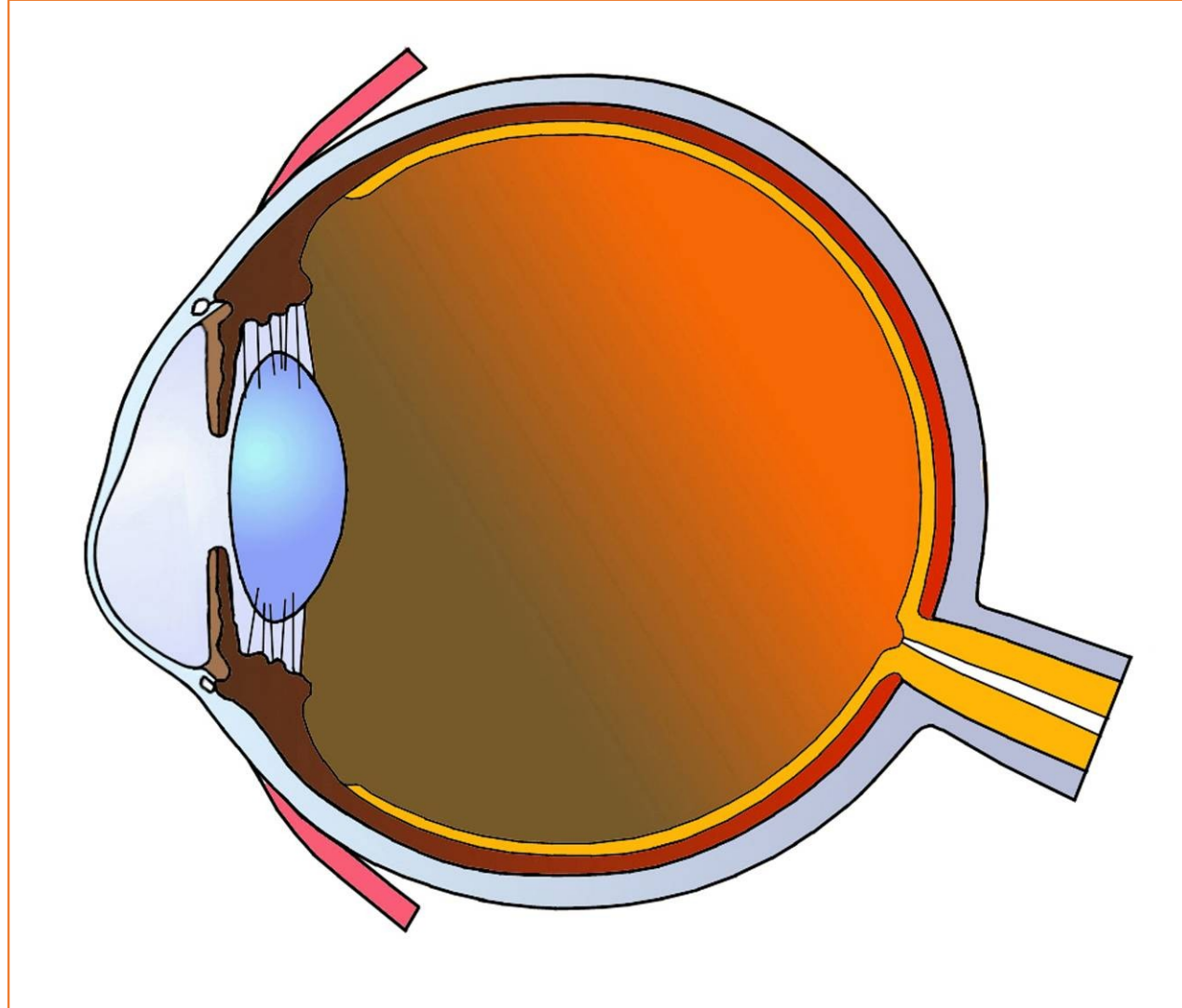
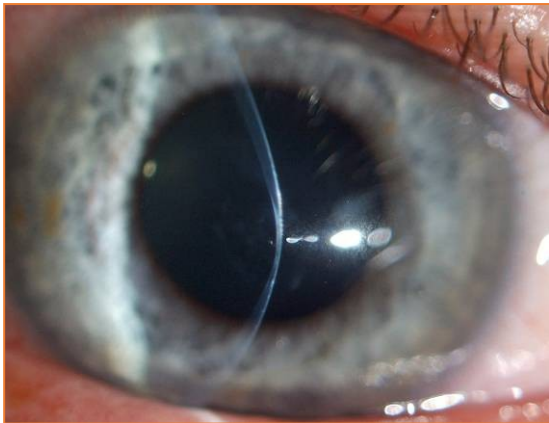
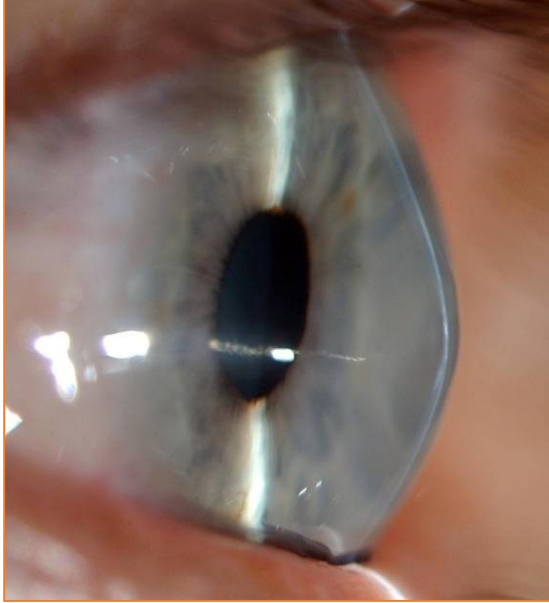
Distortion of the cornea in keratoconus



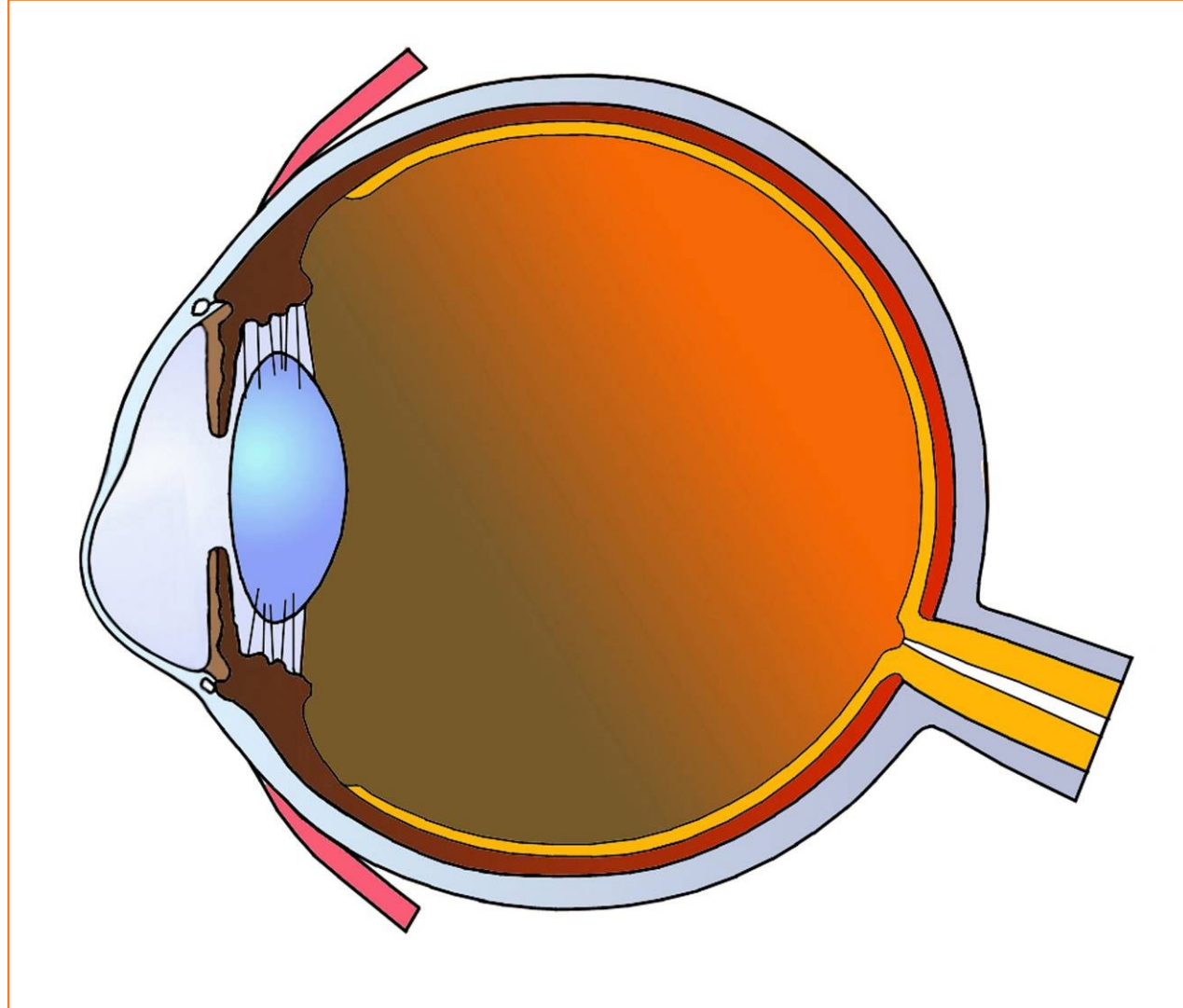
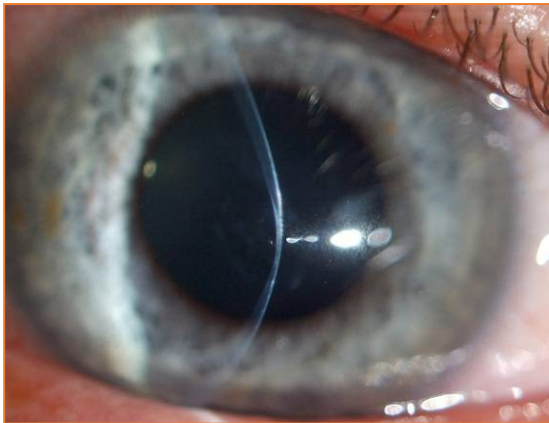
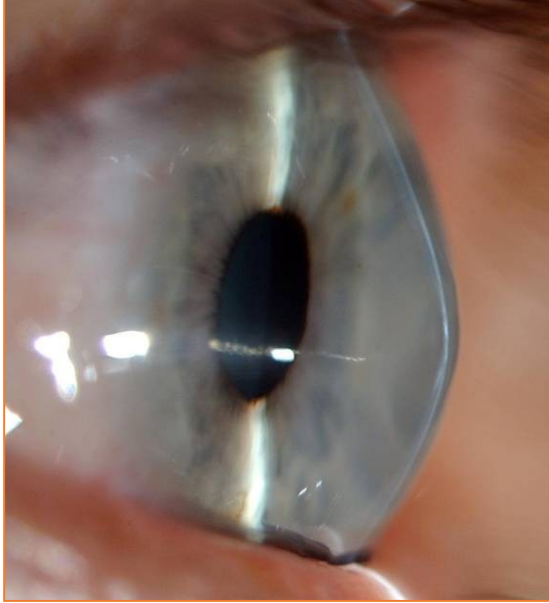
Distortion of the cornea in keratoconus



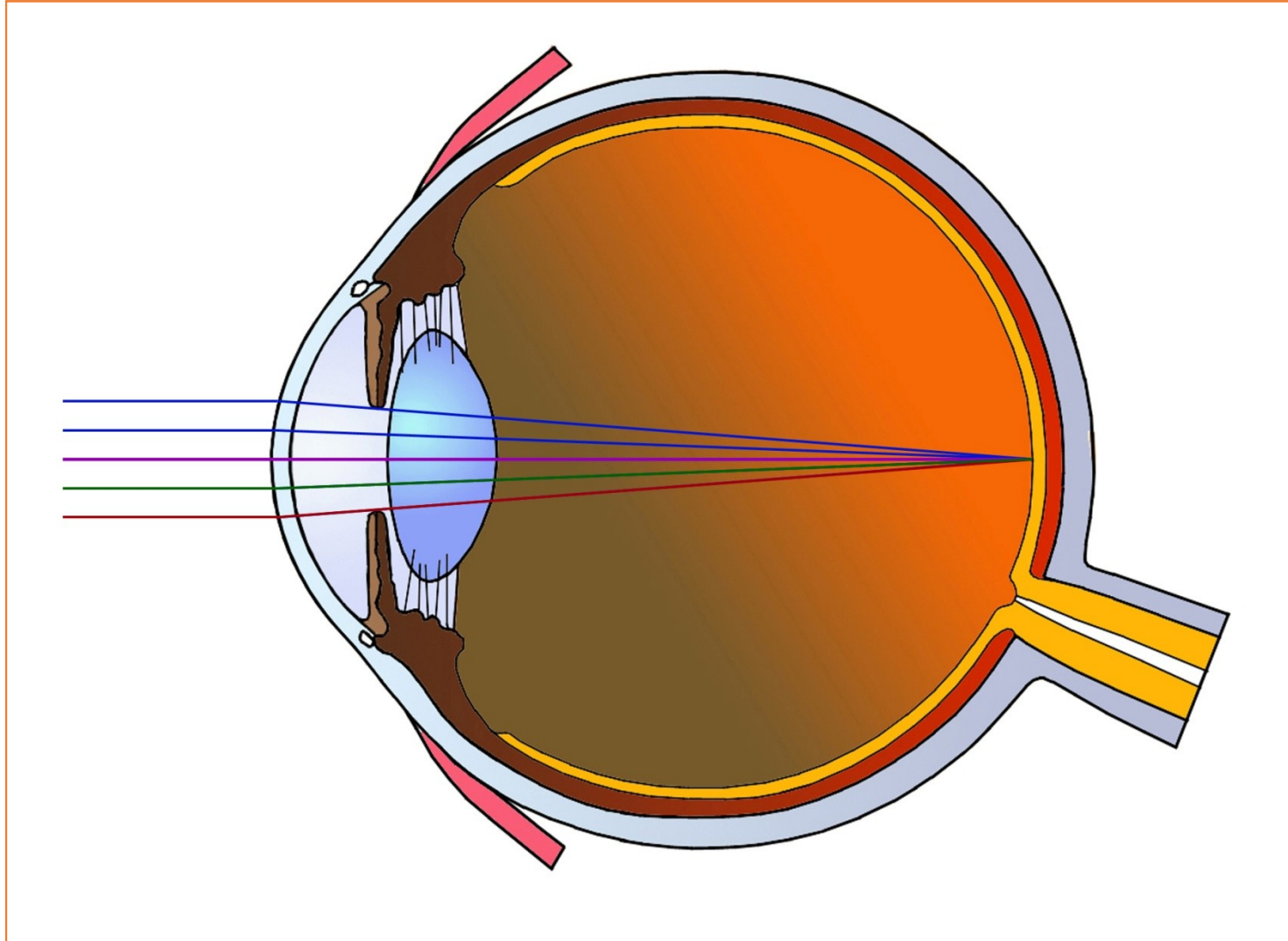
Distortion of the cornea in keratoconus



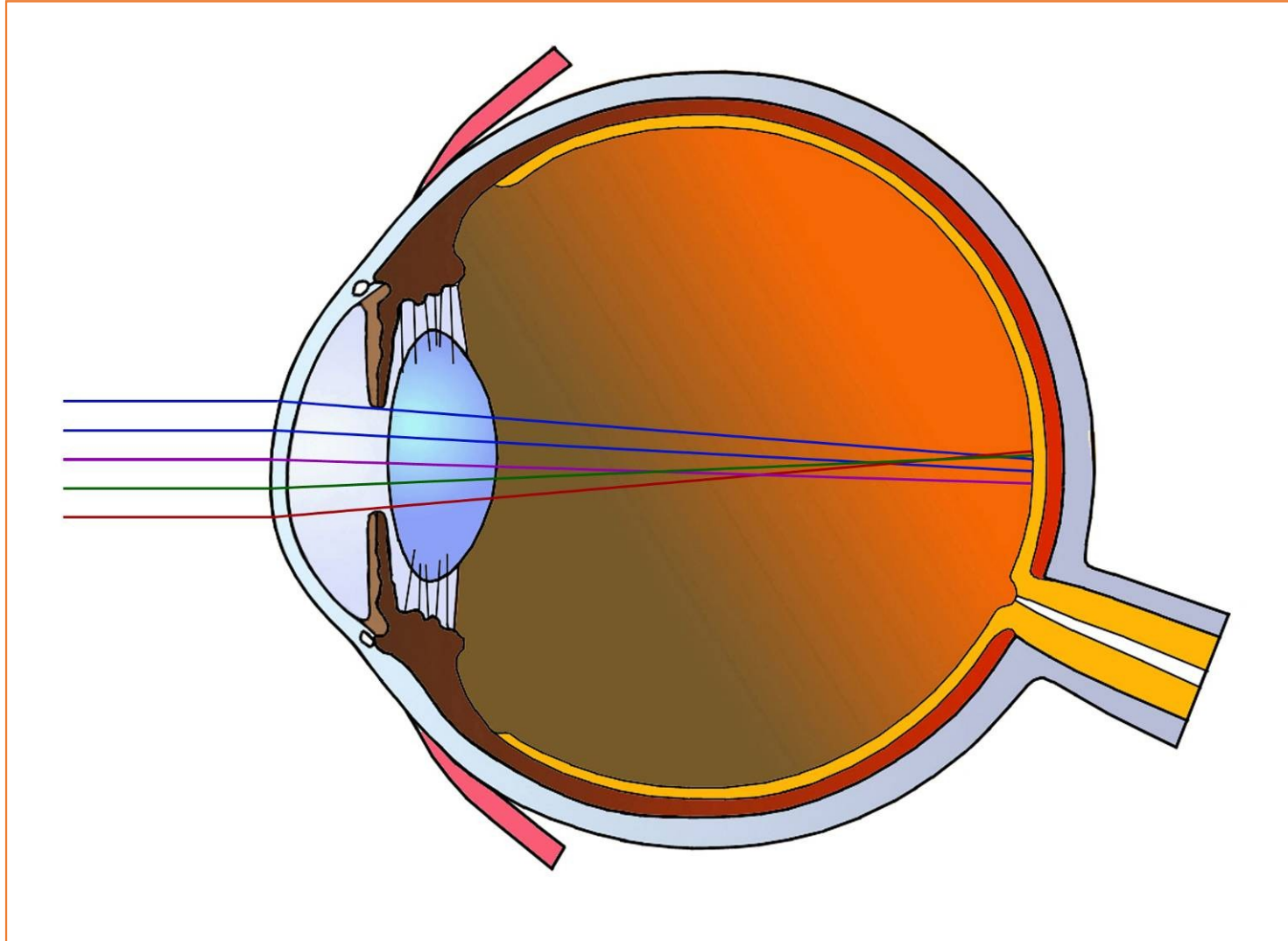
Distortion of the cornea in keratoconus



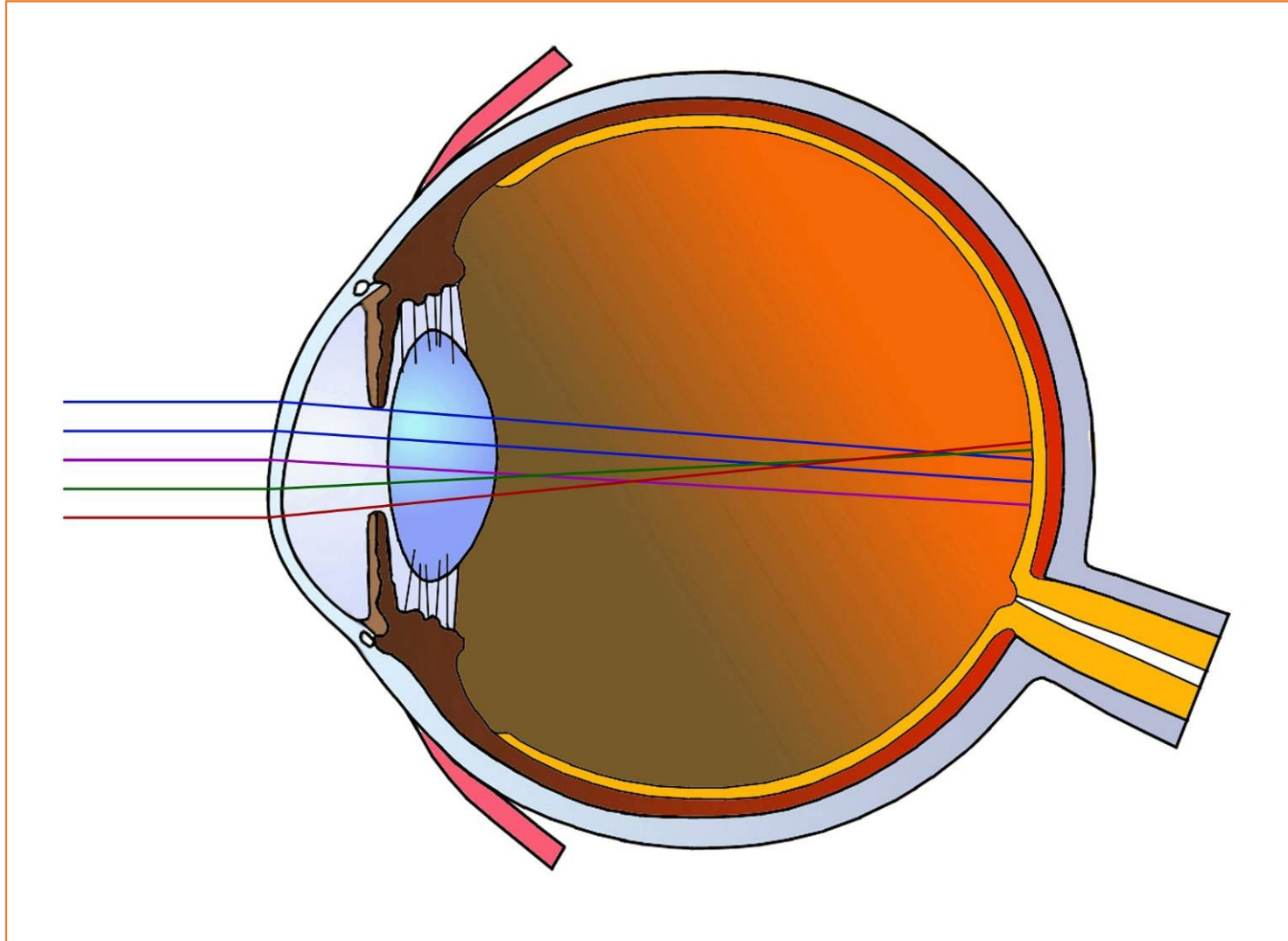
The effect of irregular astigmatism on the refraction of light rays



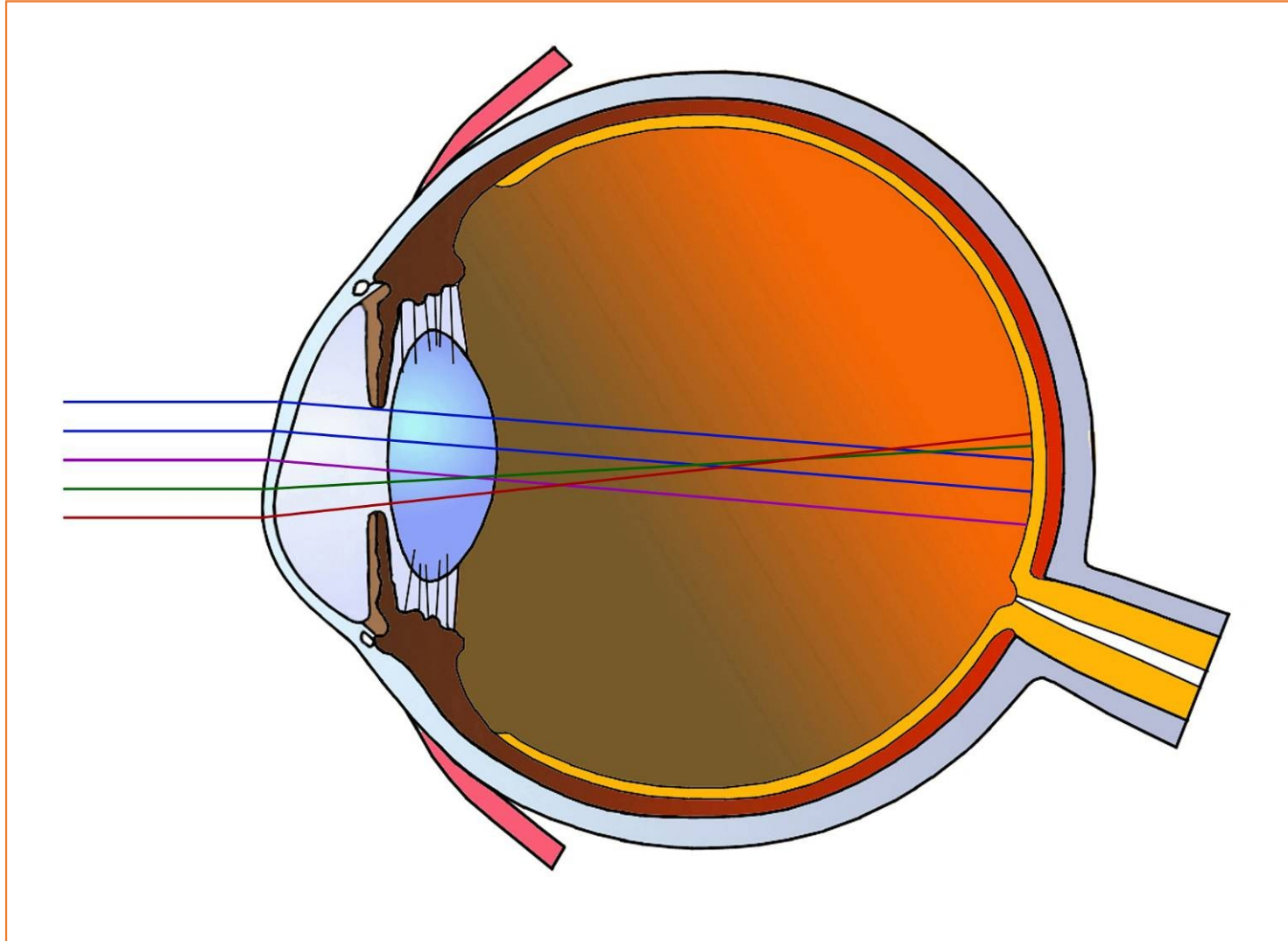
The effect of irregular astigmatism on the refraction of light rays



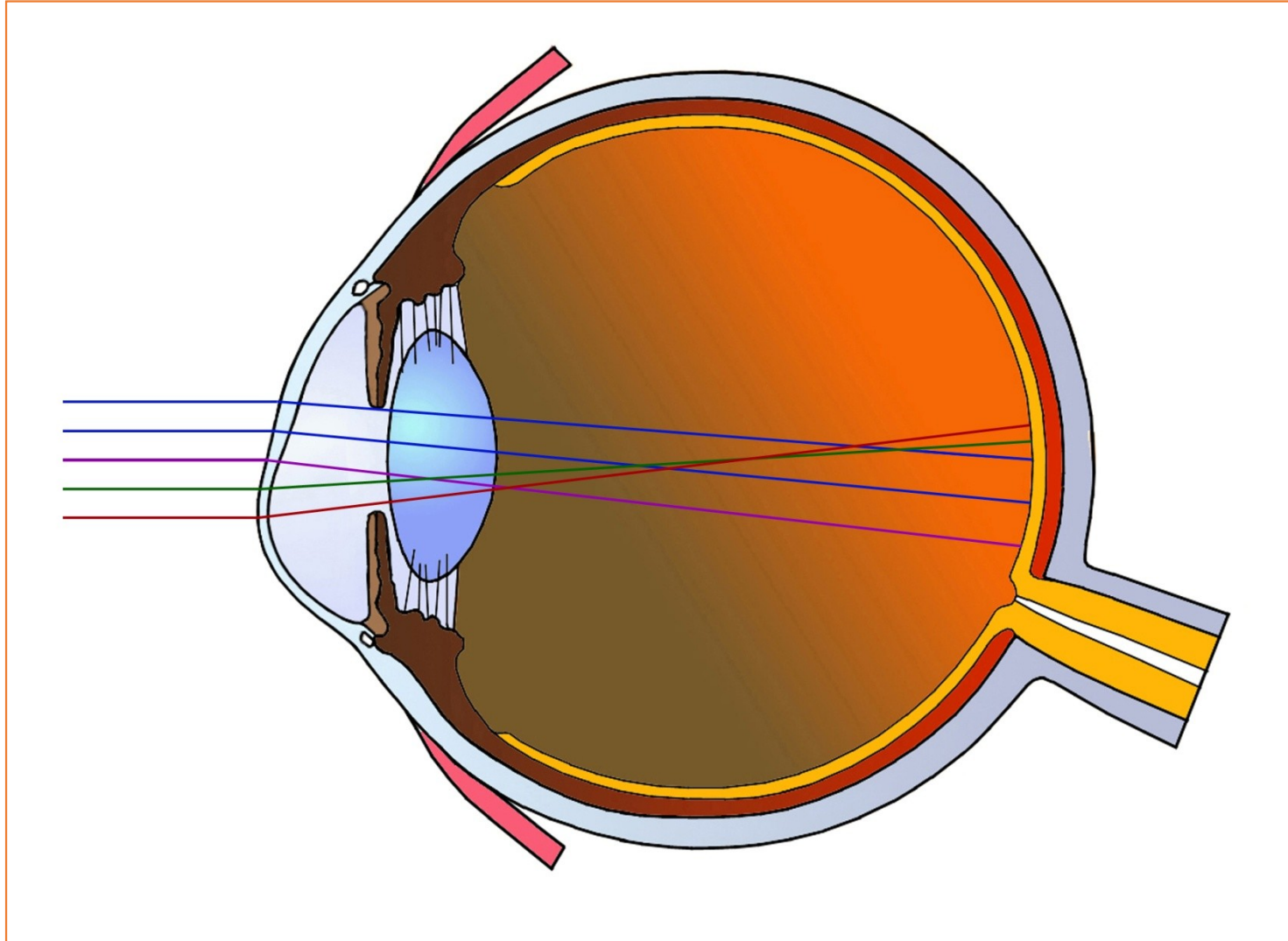
The effect of irregular astigmatism on the refraction of light rays



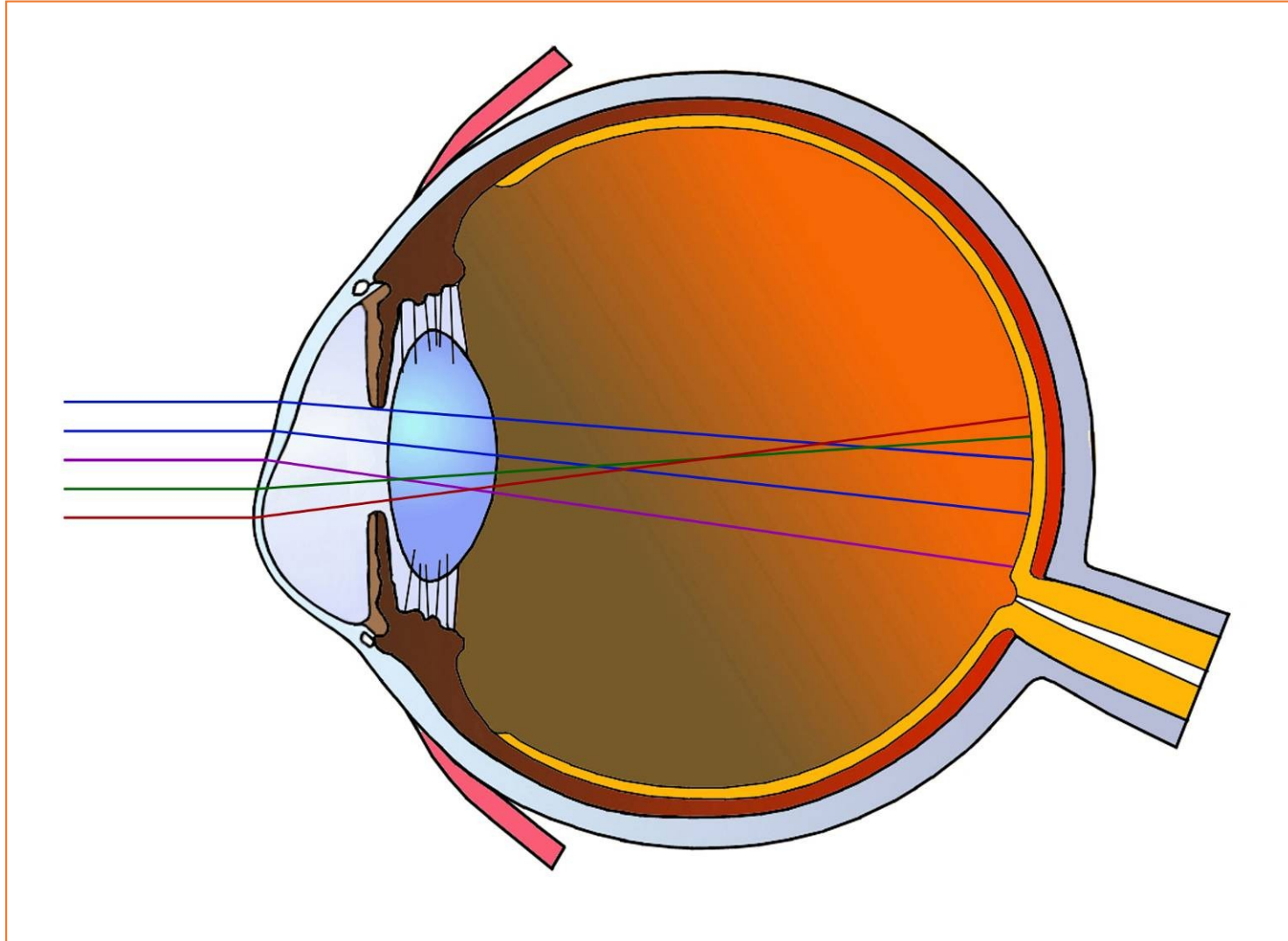
The effect of irregular astigmatism on the refraction of light rays



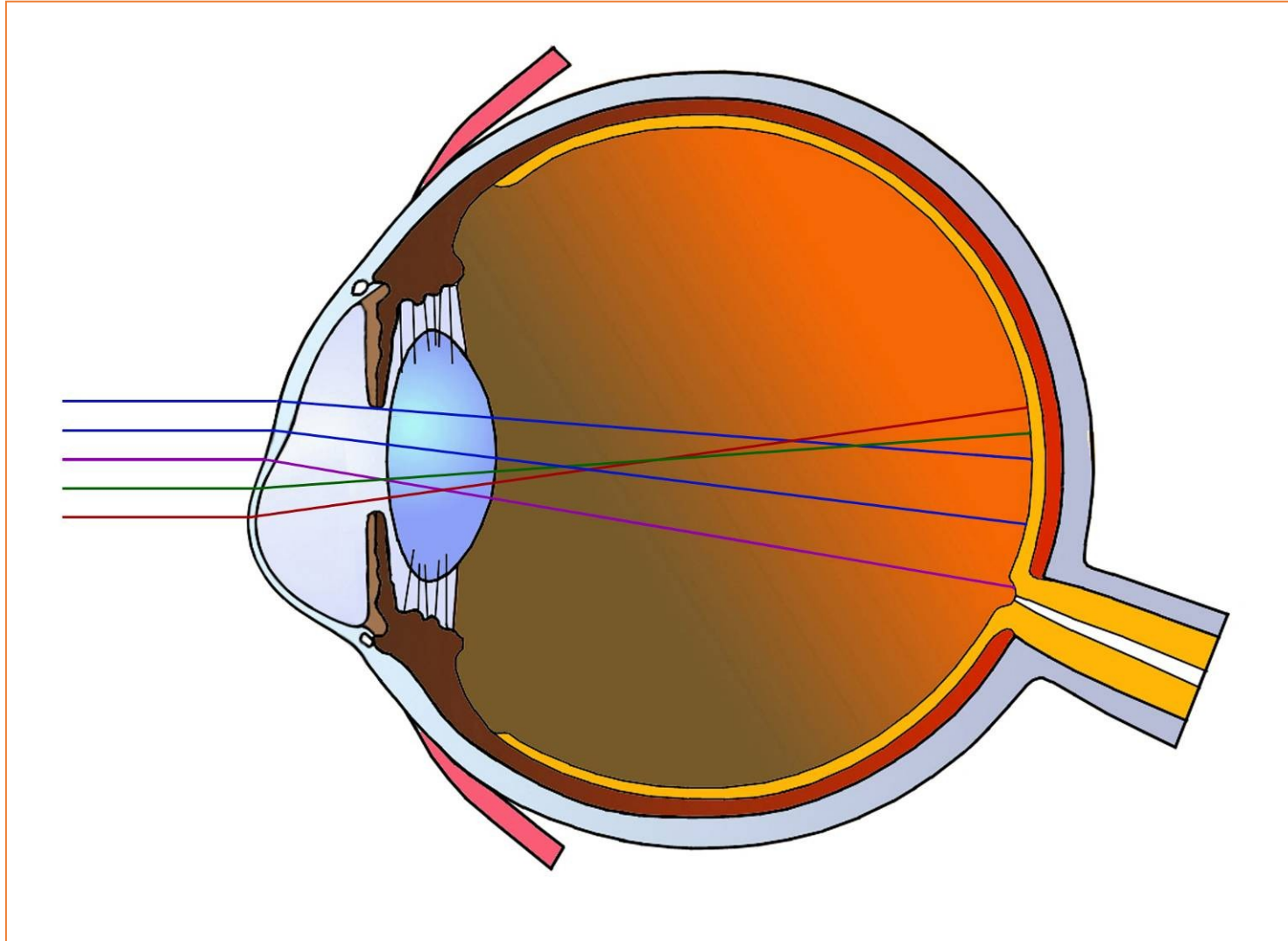
The effect of irregular astigmatism on the refraction of light rays



The effect of irregular astigmatism on the refraction of light rays

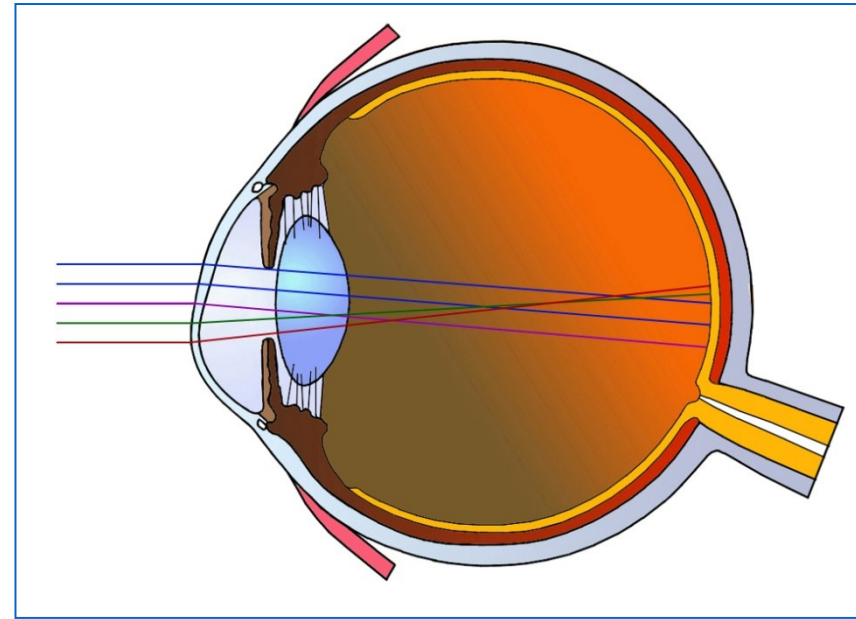
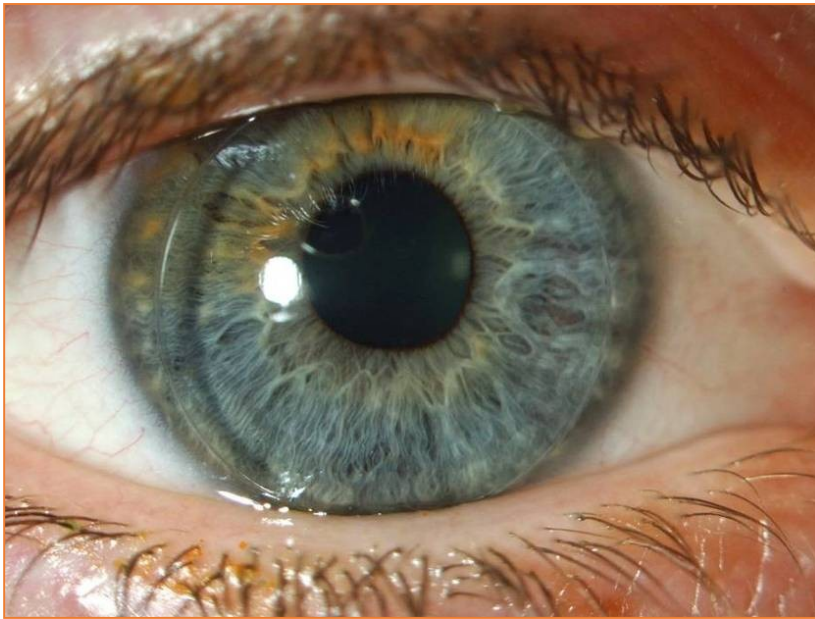


The effect of irregular astigmatism on the refraction of light rays



Correction of visual acuity in irregular astigmatism with rigid lenses

Rigid gas permeable contact lenses do not mould to the irregular surface thereby optically correcting the irregularity and restoring focus on the retina



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