

NAME: AFOKOLE EMUEJEVOKE LOVE

MATRIC NUMBER:18/MHS02/020

1. Myopia(nearsighted)

2. Hypermetropia or hyperopia(farsighted)

**MYOPIA:** It occurs when the eyeball is too long,that is to say that a myopic person is unable to focus far off objects clearly,this happens because the eyeball is unable to focus far off objects clearly. The eyeball is unable to relax its eye lens enough to form the image on retina and final image is formed on the retina. This causes the person to see blurred images of far off objects.

**Causes of MYOPIA:** myopia occurs when the eyeball is too long, relative to the focusing power of the cornea and lens of the eyes. This causes light rays to focus at a point in front of the retina rather than directly on the surface.

How can myopia be corrected; it can be corrected by using contact lenses, eyeglasses or refractive surgery. Depending on the degree of your myopia,you may need to wear your glasses or contact lenses all the time or only when you need clear vision of distance vision,like when driving,seeing a chalkboard or a movie..

Note; myopia is corrected with concave lens.

**Hyperopia or hypermetropia;** it occurs when nearly objects appear blurred but your vision is clearing when viewing objects farther away. This is caused by the eyeballs slightly short.

**Causes of hyperopia or hypermetropia**

Light rays entering the eyes focus behind the retina,rather than directly on it. Typically,this is because the eyeball of the person is shorter than normal.

How can hyperopia or hypermetropia be corrected; it's corrected by spectacles or contact lenses which are 'plus' or convex in shape.

Note; hyperopia or hypermetropia can be corrected with convex lens.