

 Notes**Nwimo Charles****18/ENG08/012****Biomedical engineering****Physiology****Eye defects****MYOPIA or NEARSHIGHTED**

Myopia occurs when the eyeball is too long, relative to the focusing power of the cornea and lens of the eye. This causes light rays to focus at a point in front of the retina, rather than directly on its surface. If you're nearsighted, the first number ("sphere") on your eyeglasses prescription will be preceded by a minus sign (-). The higher the number, the more nearsighted you are.

**HYPEROPIA or FARESIGHTED**

This vision problem occurs when light rays entering the eye focus behind the retina, rather than directly on it. The eyeball of a farsighted person is shorter than normal. Farsightedness can be corrected with glasses to change the way light rays bend into the eyes. If your glasses begins with plus numbers, like +1.50, you are farsighted.

