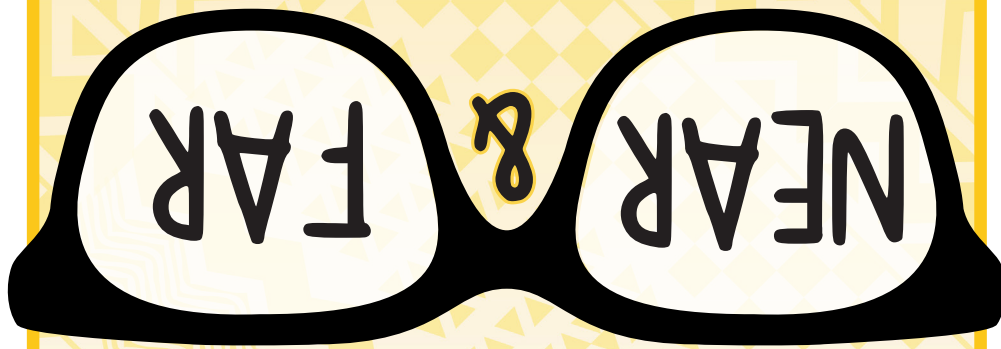


BECAUSE OF PATRICIA BATH



SEEING

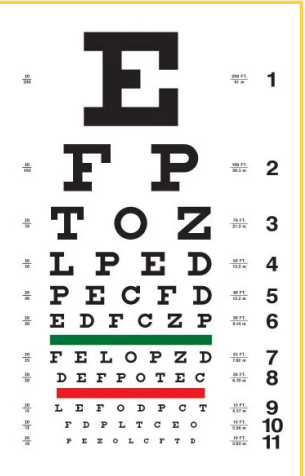
LEARN MORE

Farsighted eyesight is also called *hyperopia*. People who are farsighted can see things that are far away but have trouble seeing things that are near them. People who are farsighted are typically born that way, but they can outgrow it. When people are farsighted their eyeball is usually a little narrow or part known as the **cornea** is not as curved. Light is usually focused on the back of the eye.

Nearsighted eyesight is also called *myopia*. People who are nearsighted can see things that are close to them but have trouble seeing things that are far away from them. People who are nearsighted often develop it over time. When people are nearsighted their eyeball is usually wider or the cornea is very curved. Light is usually focused on the front of the eye.

Now you know the difference between near- and farsighted!

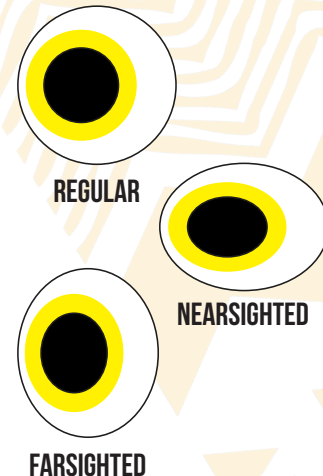
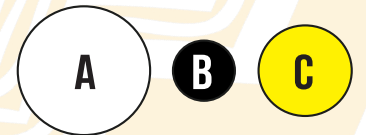
Have you ever heard someone say that they have 20/20 vision? Well, that is what is considered “average vision,” meaning you don’t have trouble seeing most things whether they are close or far away from you, and that you can read an eye chart from 20 feet away. On an eye test, 20 means that you can see the letters from 20 feet away, and the further towards the bottom you can read from that distance, the better the eyesight. The first letter on an eye test represents 20/200 eyesight, which is legally blind.



WHAT IS FARSIGHTED AND WHAT IS NEARSIGHTED?

To learn about the difference between farsighted and nearsighted vision, you will make a model of an eyeball using clay. Read the instructions so that you can learn to understand the difference between these two types of vision.

1. First, you will make three different round balls. Each one needs to be a different size and a different colour, as shown below, so you can see the different parts of the eye. Use the white clay to make the largest one (A), and black to make the smallest (B), with yellow (C) for the middle one. Keep rolling the largest until it’s about the size of an eyeball.
2. Take Ball A and sit it to the side - you will work with this later. Take Ball B and C and make them flat.
3. Once Ball C is flat, place it on your white Ball A.
4. Now place your flattened Ball B on top of Ball C. The whole thing should now look like an eyeball!



5. Repeat these steps two more times so that you have three separate eyeballs.
6. Take one eyeball and squish it from the right a little. This should stretch the eyeball out vertically, making the eye narrower. This is what the eye of a farsighted person would look like.
7. Take another eyeball and squish it from the top a little. This should stretch the eyeball out horizontally, making the eye wider. This is what the eye of a nearsighted person would look like.
8. Compare and contrast those two to the regular eyeball.

What is farsighted and what is nearsighted?

Often someone's vision is not perfect, but this can mean different things – it's all down to the shape of someone's eye and how the light hits it.

Look at the pictures below. Use the space below to write down everything you notice about the two pictures and then see if you can determine what being **nearsighted** means.



Normal Vision



Nearsighted Vision



Normal Vision



Farsighted Vision

Blank space for writing observations about nearsighted vision.

Blank space for writing observations about farsighted vision.