

**7th & 8th Grade PLTW Medical Detectives
Lesson 2, Part 2: April 7, 2020**

Learning Target:

**Students will learn what it means to be color blind
and how it can affect someone.**

Warm-Ups:

Quickwrite:

1. On a piece of paper, write down anything you know, or think you know, about what it means to be color blind.
2. Is there anyone in your family, or someone you know, who is color blind? If possible, find out how it has affected them.

Lesson Introduction and Background Information:

What Does it Mean to be Color Blind?



Definition -- To be color blind means a person is unable to determine the difference between certain colors, colors can be interpreted differently.

An example of this is when something appears to be green, but isn't actually green and is red, as in different colors of fruit.

Practice: More about Color Blindness

Watch the video below to learn more ...

[What is Color Blindness?](#)

Practice --

Write down 2 facts about the video you just watched on a piece of paper.

- 1.
- 2.

What are some examples you can think of that could be affected by color-blindness?



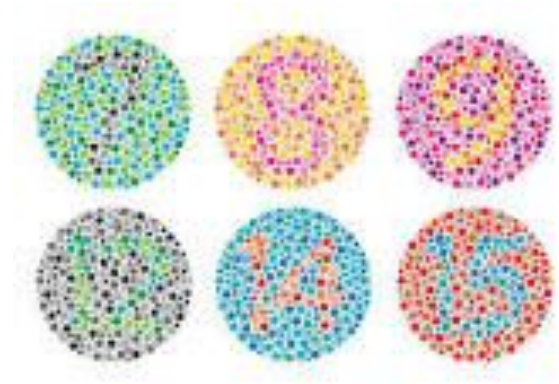
Practice: Color Blind Test

Let's conduct another little experiment to see what it can mean to be color blind.

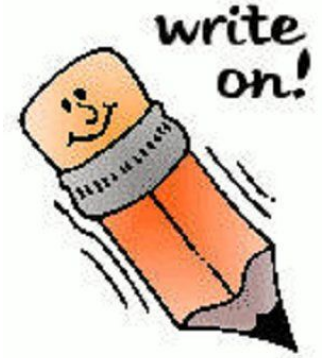
1. Click on the link below and follow the directions, once you have completed the color blind test, record your answer on your paper.

[Color Blind Test](#)

Score: ___ out of 8.



Self Assessment:



Please write your answers down on paper.

1. How many of the 8 circles did you get right?
2. What does it mean to be color blind?
3. In what ways could someone's life be affected by color blindness?
4. Do you think there are ways that color blindness can be helped? If so, how?

Answer Key

1. Answers will vary depending on the outcome of your color blind test.
2. It means some people will be unable to determine the difference between certain colors or they can be interpreted differently.
3. Recognizing colors on traffic lights; recognizing everyday items, like different fruits; making sure the clothes you wear match; any artistic work, seeing nature and scenery; and working with electronics.
4. Yes, there are special contacts and glasses that can help with color blindness.

Extend Your Learning/Continued Practice:

1. Share this experiment with someone, or several people, in your home and determine their outcome.
2. Watch the additional video [What is Color Blindness Video](#) providing additional information on the eye and color blindness.