

Name: \_\_\_\_\_



# FINDING YOUR BLIND SPOT

Answer the questions below as you progress through the What is a Blind Spot and How to Find It lesson and Finding Your Blindspot slideshow.

1. Why does the dot disappear?

2. Why does the dot reappear?

3. What could you do to test your hypothesis?

TOTALLY  
AWESOME  
SCIENCE



# MEASURE YOUR BLIND SPOT BY YOURSELF

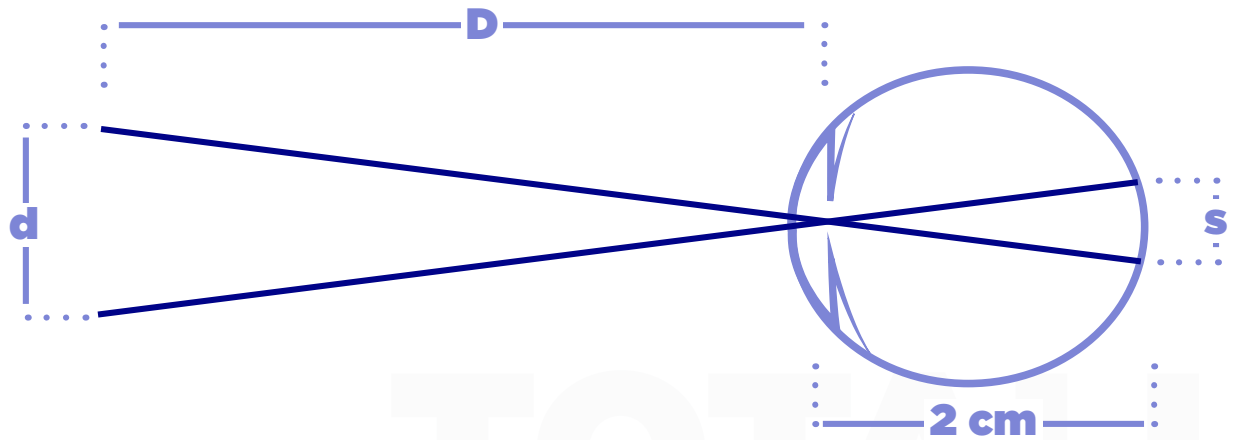
1. Hold the card at 25 cm from your face.
2. Close your left eye.
3. Look at the cross with your right eye.
4. Move a pen across the card until the point disappears and mark the card at that spot.
5. Repeat this process several times from slightly different angles and from the opposite side of the blind spot. When you have several marks, connect the marks to form a circle.
6. Then, draw a line through the center of the circle and measure it as the diameter.

# MEASURE YOUR BLIND SPOT WITH A PARTNER

1. Hold the card at arm's length.
2. Have your partner measure the distance from the card to your eye.
3. Slowly move the card horizontally left and right.
4. Note where the dot disappears and reappears.
5. Have your partner measure the distance between where the dot disappears and reappears.

4. Fill in the data below in cm and solve for s.

$$s/2 = d/D$$



- d** Diameter of the blind spot on the note card = \_\_\_\_\_
- D** Distance of the card from the face = \_\_\_\_\_
- s** Size of the blind spot = \_\_\_\_\_

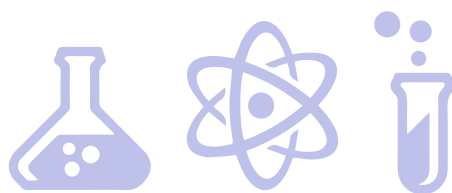
5. Is your calculation reasonable? How do you know?

6. How does this relate to a blind spot when driving?

7. How might your blind spot affect you in your life?

8. Is your neighbor's blind spot the same size as yours?

9. What more would you like to know about your eye and how can you find the answers?



### **Here's what I did today!**

Today I visited the virtual PROMISE Lab at Sanford Research. I learned the optic nerve that passes through the retina in my eye creates a blind spot. I conducted an experiment to measure the size of my own blind spot.