

All Those Seeing Color, Say Eye!

Student Sheet

Name: _____

Part I

Go to ***An Eye on Color*** slideshow (http://www.thetech.org/exhibits_events/online/color/vision/), on the Tech Museum of Innovation website. First, click on the link titled ***Inside Your Eyeball***. Then navigate through the slideshow by clicking on the link within the text of each slide. Stop when the slideshow is over. As you read the slides, answer the following questions:

1. What happens when waves of light enter your eye? Discuss the role of the pupil, retina, and optic nerve.
2. Where are rods and cones located?
3. What are rods and cones? What do they allow you to see?
4. In what area of the retina are cones concentrated?
5. When do cones work best?
6. In what area of the retina are rods concentrated?
7. When do rods work best?

8. You've just read what happens in the eye: light goes through the pupil, then hits the rods and cones and causes a chemical reaction. What understands this reaction and carries the message to the brain?

9. What causes the blind spot?

10. Why do certain animals (like the owl and bee) see colors differently than humans?



Wait for your teacher to discuss what you just learned.

Part II

Go to ***A Big Look at the Eye*** on the KidsHealth website.

http://www.kidshealth.org/kid/body/eye_SW.html

Navigate through the article by clicking on the "Next Page" link at the bottom of each slide. After you read the "The Eyes Take the Prize" page, click on the link "Want to see the eye in action?" Then click on "The Eye." As you read the article, answer the following questions:

1. What are functions of the eyelid and blinking?

2. What is a function of eyelashes?

3. Draw a diagram of the eye labeling the sclera, cornea, iris, and pupil.

