

## Optics

### Worksheet 2

#### WEB QUEST

Adapted from: [http://bmckone.wikispaces.com/file/view/Eye\\_Webquest.docx](http://bmckone.wikispaces.com/file/view/Eye_Webquest.docx).

You will learn about the eye by completing the following webquest. READ and FOLLOW all instructions listed below in the order they appear.

#### PART 1: WHAT IS AN EYE?

Instructions:

- 1) Right click "open hyperlink" on the below website address. Type your answers to the question below from the information on this website. Type your answers directly in this word document.

[http://www.myeyeworld.com/files/eye\\_structure.htm](http://www.myeyeworld.com/files/eye_structure.htm)

List the FUNCTION of each of the parts of the eye:

- a) lens:
- b) cornea:
- c) retina:
- d) pupil:
- e) iris:
- f) sclera:
- g) optic nerve:
- h) ciliary body (muscle):

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#### Part 2: What is Vision?

1) Right click "Open hyperlink" on the website address below. (You may have to click "Open or Okay" when the word document tries to pop up!)

[http://www.getfocusedamerica.org/images/houston\\_03.pdf](http://www.getfocusedamerica.org/images/houston_03.pdf)

2) Use this document to answer the following questions.

**a) What is the blind spot and why does it occur in all humans?**

**b) What is PERIPHERAL vision?**

#### PART 3: Eye Disorders

1) Right click "Open hyperlink" on the website address below.  
<http://camillasenior.homestead.com/optics4.html>

2) Answer the following questions by typing in the answer below.

a) How is light focused when someone is nearsighted? What kind of lens is used to correct this?

b) How is light focused when someone is farsighted? What kind of lens is used to correct this?

c) When a person looks at an object, what position is the object in when it hits the retina?

d) Where is the message of the object sent to after it hits the retina? What part of the eye ships the information there?