Module: Visual Conditions and Functional Vision: Early Intervention Issues

Session 2: Visual Capacity

Assignment: Tour of the Eye

Participant Version

The purpose of this activity is to experience a virtual tour of the eye and locate additional resources for visual conditions.

Resources. Refer to the Web site of the Cole Eye Institute of The Cleveland Clinic:
http://www.clevelandclinic.org/eye/patient_info/

SKI-HI Institute. (2003). Eye conditions: Eye conditions in infants and young children that result in visual impairment, and syndromes and other conditions that may accompany visual disorders. North Logan, UT: HOPE, Inc. (Read pp. 1-34)

Handout G: The Eye and How We See

Directions
1. Participants should also visit the Web site listed above.
2. Click on the box labeled “View Our Eye Anatomy Tutorial” and continue with Take a Tour of the Eye. You may view the tour in a step-by-step process or take the interactive tour by clicking on the anatomical parts of the eye in order.
3. Use this information to assist you with the following assignment questions about the anatomy of the eye and the visual pathways.
ANATOMY OF THE EYE & VISUAL PATHWAYS

1. Label: Using the diagram below of a horizontal section of a right eyeball, label the indicated structures of the eye.
2. **Explain** how the eye works by describing in proper sequence the visual pathways from an object viewed at a distance of 20 feet to the “process of seeing” at the visual cortex.

3. The eyes move in the eye orbit due to six ocular muscles. **Name** these six muscles **and state** their specific functions.

4. **Describe** the process of *accommodation* and the structures of the eye involved.

5. There are numerous things that can go wrong with the parts of the visual system resulting in many different visual conditions / diagnoses. Each visual condition is made up of one or more types of visual loss. Other than visual processing problems **list and briefly define** the other functional losses of vision.