

Names: _____

Please try a number of these presentations and answer the questions below about them. Return ONE copy of this handout for your group to Julie before leaving.

Olin 110 (try to do at least one of these demonstration)

1. GOGGLES

Have one person in your group wear goggles while someone else serves as a support person. Try to get the person to walk around in the hallway, pick up dropped items, etc.

What do the goggles do to your vision? How is it possible that you can adjust and use a flipped image to behave naturally?

What does this demonstration tell you about your visual system and brain?

2. GANZFELD EFFECT

Try looking at the red illuminated blank wall or the green illuminated blank wall for a while (at least 2 minutes) . You have to stare at a blank wall continuously (which is illuminated in red or green) in order for this after-effect to work. What happened to your vision as a result of this stimulation? How is this happening?

What does this demonstration tell you about your visual system and brain?

Olin 141

Use your laptop computer in your group for this. Allow all to view it. Try it in a lab later. Selections are also in COURSES>PSY110 SPRING 2012>Click on titles.

1. motion after-effect

Go to the following website: <http://dogfeathers.com/java/spirals.html>

What happens to your vision after you see the moving spirals?
How is this happening?

2. Cornsweet center-surround illusion – test of contrast

Go to the following website:

http://www.michaelbach.de/ot/lum_cobc/index.html

Follow the instructions. Why do you see a darker circle in the middle of the lower right image when there isn't one?

3. Muller-Lyer Illusion: test of depth cues

Go to the following website:

http://www.michaelbach.de/ot/sze_muelue/index.html

Read the instructions and try to set the arrow in the middle. Use the ruler button to check your work.

Why can't you set it in the middle properly?

4. Face processing and light sources

Go to the following website:

http://www.michaelbach.de/ot/fcs_hollow-face/index.html

What is peculiar about the rotating faces? What makes you see them the way you do?

5. Grab bag of visual perceptual illusions
Go to the following website:

<http://www.michaelbach.de/ot/index.html>

Click on at least 2 of the icons to the right (allow your partners to select as well). Record below the name of the illusion you view, and describe what you see that is peculiar or a perceptual trick. Then try to explain why you think the visual system does this.

a.

b.

Reading examples: go to Olin 142 to discuss, and there are handouts!

1. Explain why Dr P sees the way he does. Describe his deficits, savings in vision, and the area(s) of the brain that are likely to be damaged and result in this perception.
2. Explain why Eyes Right! sees the way she does. Include her symptoms and the physiological reason.
3. Backwards mirror drawing task: Please do this in Olin 142 and discuss why this is difficult, and what this means about the visual system and the brain.
4. Try drawing the illusion on the sheet in Olin 142 from memory, after staring at it for a while. Why is it difficult to draw? Try drawing it while looking at it. Why is it still difficult?