

What are Visual Processing Disorders?

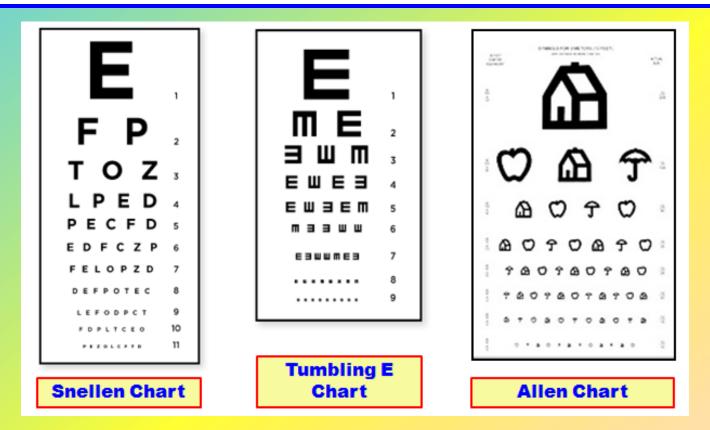


Visual processing disorders occur when the brain cannot process the information it receives through the eyes...there are many kinds!

Signs of CAPD

- 1. Poor attention skills
- 2. Balance issues
- 3. Unable to follow directions
- 4. Lack social skills / few friends
- 5. Poor spelling
- 6. Unusual responses to loud noises (fire alarm)
- 7. Cannot do other tasks while listening
- 8. May turn one ear towards listener

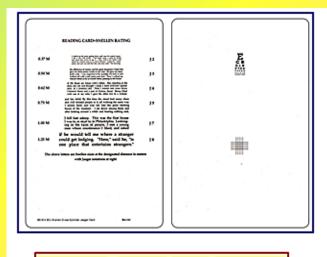
Surprising Things About Visual Processing Problems



- 1. Most children will never mention a vision problem
- 2. Eventually children can lose 3-D vision
- 3. It is usually NOT detected by normal 20/20 tests!

Formal Diagnosis

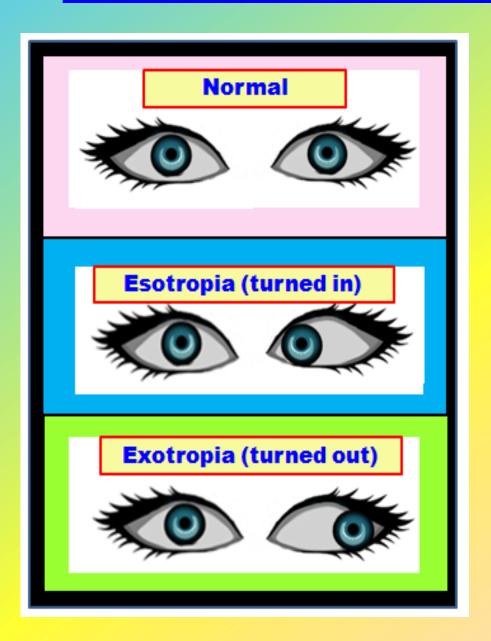
- 1. Typical 20/20 vision exam
- 2. Visual Acuity at Near Distances (Near Point charts)
- 3. Eye Teaming Ability (Two eyes working together)
- 4. Eye Movement and Control Ability (Tracking)
- 5. Eye Focusing Ability (Near→Far and Far→Near)
- 6. Visual Perceptual Tests (Occupational Therapist)



Examples of "Near Point" Charts



Teaming Issues



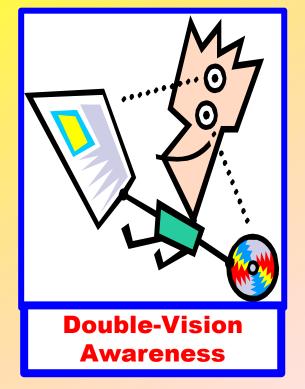


- surgery
- vision therapy
- patching

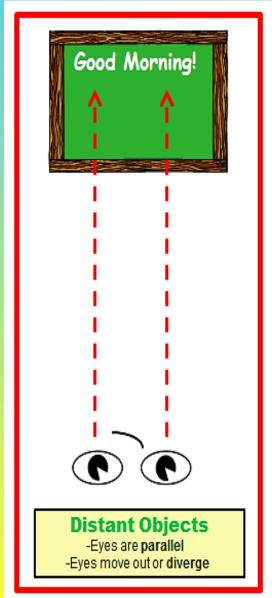
Classroom Strategies for Teaming Issues

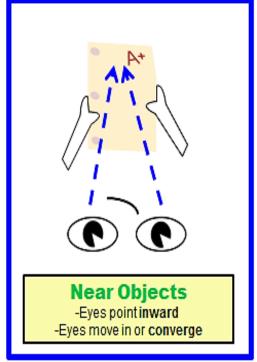






Convergence Insufficiency





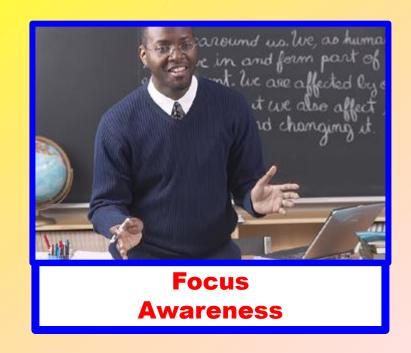


- Surgery (rare)
- vision therapy
- patching or prism glasses

Classroom Strategies for Convergence Insufficiency







Visual Field Cuts (Neglect)



The real scene

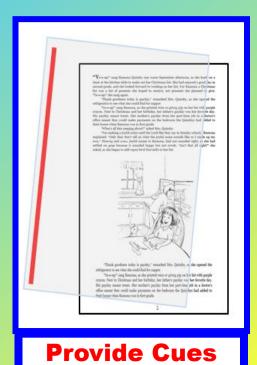


What someone with an upper left field cut might see (the brain just continues the wall)

Treatment Options

• Varies depending on whether it is related to damage to the visual field or developmental habits that stem from other visual problems

Classroom Strategies for Neglect









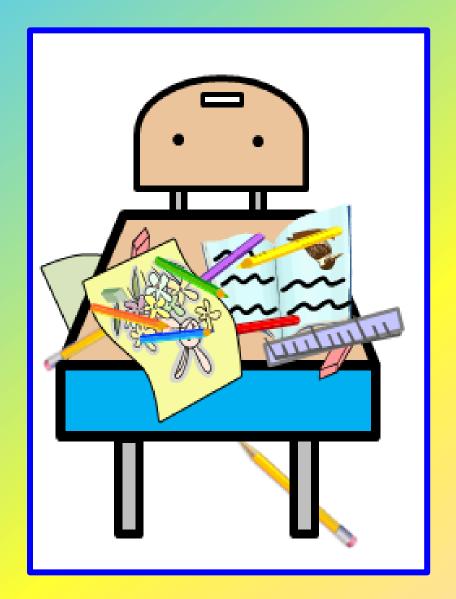
Teach Scanning

Classroom Strategies for Neglect





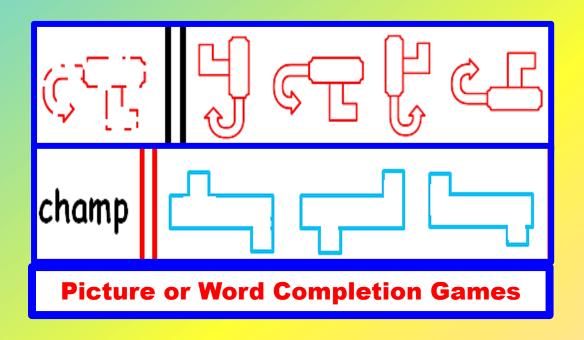
Visual Closure Problems

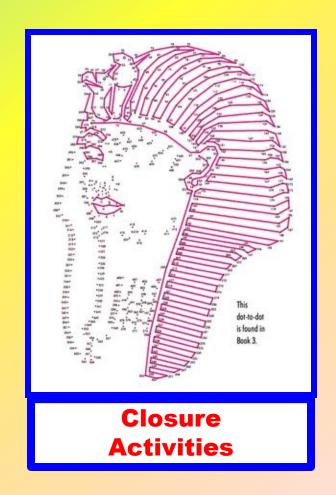




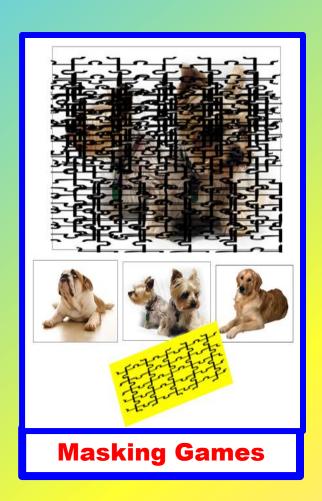
- vision therapy
- Occupational therapy
- Other assistance as needed

Classroom Strategies for Visual Closure





Classroom Strategies for Visual Closure



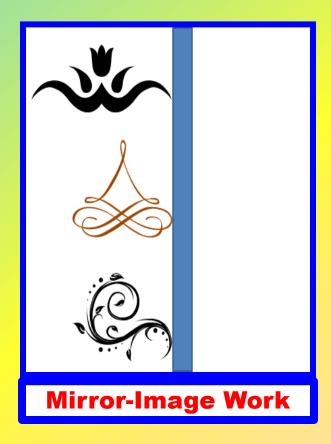
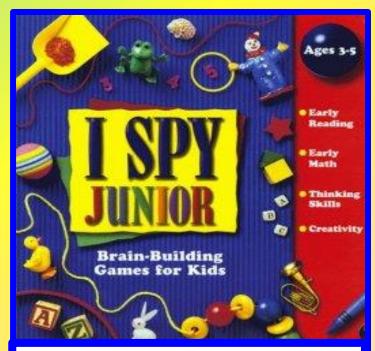




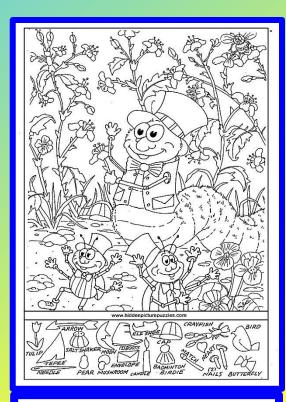
Figure-Ground Discrimination Problems





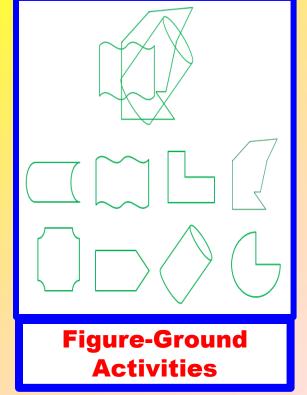
- vision therapy
- occupational therapy
- testing for color-blindness
- other assistance as needed

Classroom Strategies for Teaming Issues

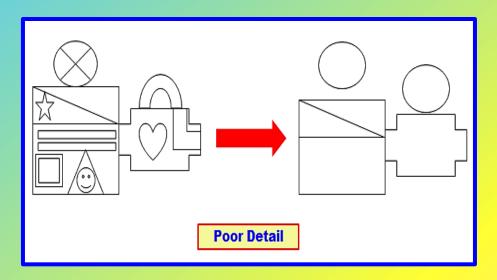


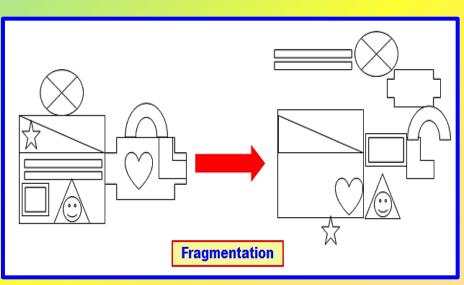
Hidden Pictures (simple)

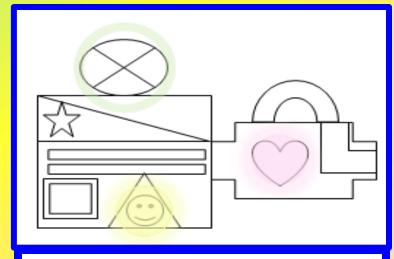




Visual Gestalt Issues





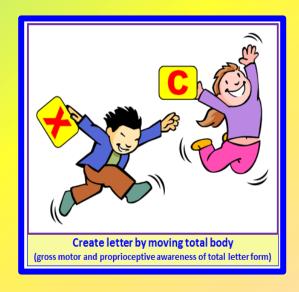


- vision therapy
- occupational therapy
- other assistance as needed

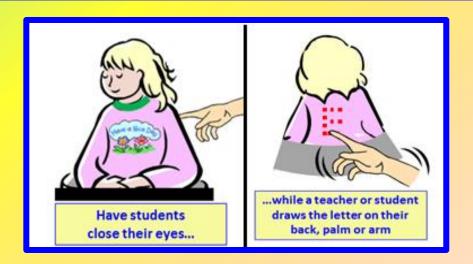
Classroom Strategies for Gestalt Problems







Develop Alternative Memory Buffers (not vision)



Prosopagnosia (Face Blindness)





- coping strategies
- social skills

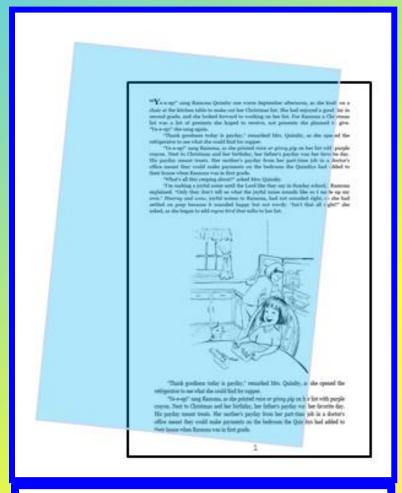
Irlen Syndrome





- colored glasses
- colored overlays
- other assistance and therapy as needed

Classroom Strategies for Irlen Syndrome



Colored Overlays (Irlen Filters)

Visual Contrast Sensitivity

This may be too hard to read

This may be easier to read

*Adjust *Font* on Computer

*Reduce Color on Display

*Change Fonts to Comic Sans

Awareness of Irlen Triggers

Resources

http://dev.ncld.org/types-learning-disabilities/adhd-related-issues/visualprocessing-disorders

(National Center for Learning Disabilities; provides resources on many other disabilities as well)

http://visualperformancecenter.com/vp.html

(general information on vision and processing)

http://children.webmd.com/video/vision-therapy-children (video on vision therapy)

http://irlen.com/distortioneffects.php and http://www.hale.ndo.co.uk/scotopic (simulations of Irlen Syndrome)