Understanding Visual Processing And How it Affects Learning	
Homeschooling DYSLEXIA Educate yourself so you can educate your child.	
What Is Visual Processing?	
Visual processing is the process of recognizing and interpreting information taken in through the sense of sight.	

Understanding Visual Processing Disorders



In Visual Processing Disorder the brain has trouble accurately **processing** signals that come from the eyes.

8 Types of Visual Processing Weaknesses Visual Discrimination	
The ability to recognize details in visual images	
Can have difficulty seeing the differences between two similar letters, shapes, or objects.	

8 Types of Visual Processing Weaknesses	
Visual Figure Ground Discrimination	
The ability to filter visual information that is not important so that you can focus on relevant	
visual information.	
Figure ground perception allows us to find the detailed visual information even when it is part of a busy background.	
or a budy buokground.	

Visual Sequencing or Visual Sequential Memory

8 Types of Visual Processing Weaknesses

Visual sequential memory is the ability to remember and recall a sequence of objects and/or events in the correct order.

The ability to remember what order in which we see objects is crucial when learning the basics of literacy and math.

8 Types of Visual Processing Weaknesses	
Visual Motor Processing or Integration	
Visual motor integration is the ability to interpret visual information and respond with a motor action.	
Kids may bump into things, place things on the edges of tables or counters where they fall off, "miss" their seats when they sit down, etc.	
Affects writing, organization on paper, and the ability to transition between a worksheet or keyboard.	
Writing within the lines or margins can be tough and they may have trouble copying from a book.	
8 Types of Visual Processing Weaknesses	
Visual Memory	
Visual memory is the ability to immediately recall what the eye has seen.	
Visual memory is necessary for most academic tasks such as reading, spelling, reading comprehension, science,	
math, copying from the board, etc.	

8 T	ypes	of	Visual	Processing	Weaknesses
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Visual-spatial Relationships

Visual spatial relationship is the ability to visually perceive two or more objects in relation to each other and to yourself.

Can effect your motor skills, body awareness, problem solving, activities of daily living and your overall performance in school.

8 Types of Visual Processing Weaknesses

Visual Closure

Visual closure is a visual perceptual skill that allows you to know what an object is even when the object is only partially visible.

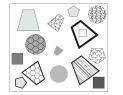


Visual closure is necessary to quickly view objects and mentally determine what they are before we see the entire object.

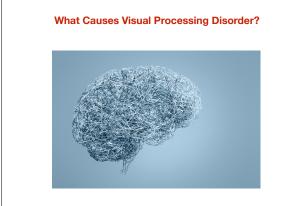
It is required for reading quickly, reading fluently and predicting differences in similar words.

8 Types of Visual Processing Weaknesses

Visual Form Constancy



Form constancy is a visual perceptual skill that allows you to understand that a form, shape, object stays the same even when it changes it size, position or is in a different environment.



Vision Therapy and Dyslexia	
Vision therenice	
Vision therapies DO NOT cure or help with dyslexia.	

Signs of Visual Processing Disorder	
Doesn't pay attention to visual tasks.	
Easily distracted by too much visual information.	
Is restless or inattentive during video or visual presentations.	
Does a sloppy job, for instance, sweeping the floor.	
Lacks interest in movies or television.	

Signs of Visual Processing Disorder	
Difficulty with tasks that require copying (taking notes from a board)	
Reverses or misreads letters, numbers, and words.	
Bumps into things.	
Difficulty writing within lines or margins.	
Trouble spelling familiar words with irregular spelling patterns (quite - quiet)	

Signs of Visual Processing Disorder

Can't remember phone numbers

Poor reading comprehension when reading silently

Can't remember facts that were read silently

Skips words or entire lines when reading

Says his eyes hurt, rubs eyes a lot

Signs of Visual Processing Disorder
Has below-average reading comprehension and writing skills, despite strong (spoken) comprehension and verbal skills
Has weak math skills; frequently ignores function signs, omits steps, and confuses visually similar formulas
Routinely fails to observe or recognize changes in bulletin board displays or posted notices

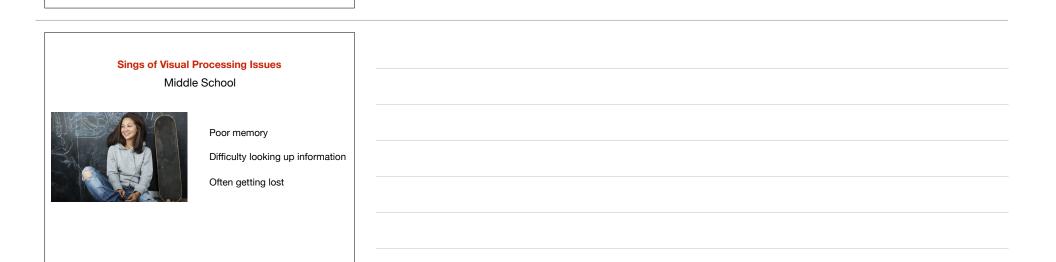
Signs of Visual Process	
Signs of Visual Proces	sing Issues

Elementary School



Difficulty with writing Lack of fine motor skills

> Trouble with reading Difficulty with math



Processing Issues School		
Difficulty getting things done Disorganized Poor sense of direction		
Forgetful		



Treatments for Visual Processing Disorder	
There are no medications or recognized 'cures' for	
Visual Processing Disorder	
Often comorbid with other learning issues like	
dyslexia and ADHD	
If signs and effects are severe, have psycho-educational testing	



Activities for Building Visual Processing Skills	
Visual Discrimination Skills	
Sorting games	
Matching games	
Puzzles	
Circle letters or words in magazines or books	
Play dominoes	
Play Lotto or Bingo with picture cards	
Do letter, number or word searches	

Activities for Building Visual Processing Skills	
Visual Figure Ground Discrimination	
Play 'I Spy'	
Make 'I Spy' games	
Hidden picture type puzzles	
Pick up Sticks and matching games	
Color by number activities	
Word searches and jigsaw puzzles	
Scan and find certain words in written text	

Activities for Building Visual Processing Skills Visual Sequencing	
Make patterns with beads, small toys or household objects and have your child copy the pattern.	
Create movement patterns for your child to copy such as clap hands 2x, jump up 3x and spin 1x.	
Cut up simple comic strips for your child to put back in sequence	
Play charades acting out daily routines	
Place items on a tray in order, cover it up and mix the items. See if your child can put them back in order.	
your child can put them back in order. Simon, Mastermind, Loopz	

Activities for Building Visual Processing Skills

Visual Motor Processing or Integration

Practice, practice ball skills - catching, throwing, kicking, and hitting. Start with larger balls.

Practice large movements to form letters and numbers (also called 'air writing'

Use stencils, dot-to-dot puzzles, mazes, and coloring books - emphasize coloring in the lines

Practice lacing activities with beads simple sewing etc

Copy designs using wooden blocks, interlocking blocks, etc

Play movement games that encourage right/let discrimination, avoiding obstacles, stopping/starting, etc

Activities	for	Building	Visual	Processing	Skills
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Visual Memory

Look at a picture together and talk about what you see. Cover the picture and see what details they can remember

Play 'What's Missing?' Place several objects on a tray, remove one, have child figure out which one is missing.

Play the 'Memory Game' Place several objects on a tray. Let your child look for 1-2 minutes. Cover up and see how many they can remember.

Activities for Building Visual Processing Skills
Visual-Spatial
Play movement activities such as obstacle course or
playground equipment
Play movement games with boundaries such as tag, hopscotch, hula hoop games.
Complete shares such as estiting the table, dusting or
Complete chores such as setting the table, dusting or sweeping where child has to move around objects
Play with building toys such as wooden blocks, interlocking
blocks, and railroad tracks.

Activities for Building Visual Processing Skill	Activities f	or Buildina	Visual	Processing	1 Skills
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Visual Spatial

Complete projects such as model cars or craft kits where you have to follow directions such as glue this circle to the yellow square.

Practice copying pictures from paper then increase the challenge by copying a picture from far away.

Play board games that require you to move your pieces in certain directions such as checkers or chess.

Complete multi-step craft activities such as origami.

	Activities for Building Visual Processing Skills		
	Visual Closure		
	Partially hide objects or toys and ask the child what is hiding without revealing the entire object.		
	Cover up parts of a picture and see if the child can guess what the image is.		
	Play "Find the Object": pick any small object in your house such as a clothes pin. Hide the clothes pin with a part of the clothes pin showing. Your child has to find the hidden clothes pin.		
	Complete Dot to Dot puzzles or jigsaw puzzles		
	Find a simple picture in a magazine and fold it in half. Glue it on a piece of paper. See if the child can finish drawing the other side of the picture.		
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	Activities for Building Visual Processing Skills		
	Visual Form Constancy		
	Complete puzzles		

Use shape sorters and other games that require space, letter or number matching

Place different sized shapes in a bag. Ask child to reach in without looking and find a small square or large rectangle.

Go on a scavenger hunt to find 10 circles or letter A's Match pictures to real life objects (ie picture of a lollipop + real coin = both are circles

Accommodations for Visual Processing Disorder What are accommodations?
The term "accommodation" is used to describe an alteration of environment, curriculum format, or equipment that allows a person with a learning disability to gain access to content and/or complete assigned tasks.

Accommodations With Materials	
Let your child use a slant board or 3-ring binder to bring work closer to his visual field.	
Allow the use of wide-ruled paper or graph paper for math. Darken or highlight lines margins on paper.	

Accommodations With Teaching Techniques
Don't rely solely on visual instructions. Give oral as well as written instructions.
Describe out loud andy visual presentations.
Provide a notetaker.
Allow time to summarize each lesson before moving on.
Include simple diagrams or images to help clarify long written
directions.
Allow time fo your child to ask questions.

Accommodations for During Class Time	
Find curriculum with uncluttered pages and simple directions	
Write directions in a different color than the rest of the print	
Allow your child to write his answers on a separate sheet of	
paper so he can focus on writing thoughtful responses rather than on fitting their responses into small spaces	

Use highlighting or sticky note flags to draw attention to important information on worksheets

Draw a bold, black borders around math problems to help the student focus on one item at a time

Ask for oral reports instead of written responses

Accommodations for During Class Time	
Use a reading guide strip or a blank index card to block out other lines of text while reading	
Use audiobooks and tape class lectures	
Reduce visual distractions by folding a worksheet or using blank pieces of paper to cover up part of the page	
Use a highlighter to highlight information while reading	

Assistive Technology for Visual Processing Weaknesses	
Speech-to-text	
Spell checkers	
Apps for typing into PDFs	
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Apps for lining up math problems	
Note taking apps for typing in phone numbers, passwords etc	
Audiobooks	
TechFinder at understood.org	

Final Thou	ghts
	Keep learning
Homeschooling DYSLEXIA Educate yourself so you can educate your child.	Keep observing
	Offer lots of practice
	Celebrate victories
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