The Truly Individualized IEP



A Guide for Connecting Cognitive Impacts to Recommended Strategies

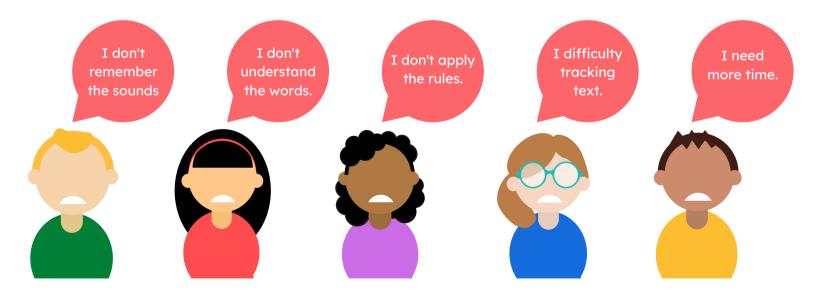


The Purpose of This Guide

The purpose of this guide is to help special educators connect with their students through specially designed instruction. Specially designed instruction means adapting, as appropriate to the needs of a student, the content, methodology, or delivery of instruction.

Connecting with the needs of each individual student means connecting IEPs to address the IMPACT of the disability. Most IEP teams begin with performance gaps revealed in assessments. Performance gaps explain WHAT a student is missing. To truly connect with a students, the special educator needs to understand the cognitive challenges revealed in the psychological evaluation. Cognitive challenges tell teachers WHY a student is missing it.

For example, a students with weak working memory has difficulty decoding for different reasons than a students with poor verbal comprehension. These two students require two different plans or strategies to overcome the performance gap because they have two different WHYs.





A Thinking Challenge Analogy



Working Memory: The Mail Room

Working Memory is where ideas and information are received and distributed to the other parts of the brain where they need to go to be worked on. Working Memory prioritizes by importance and focuses on getting the message to the right place on time.



Verbal Comprehension: The Library

Verbal Comprehension is where the brain goes to find existing knowledge about ideas and information. In order to understand, the brain has to find information that is relevant and sufficient.



Fluid Reasoning: The Laboratory

Fluid Reasoning is where the brain follows methods and procedures. It experiments and learns by doing. This is where novel problems are solved and open questions are answered by using strategies, tools and resources.



Visual Spatial Reasoning: The Conference Room

Visual Spatial Reasoning is the part of the brain that reads graphs and diagrams, interprets data, and breaks information down from wholes to parts. This is where visualization happens, patterns emerge, and the mind maps concepts together.



Processing Speed: The Office

Processing Speed is how the brain organizes tasks, completes the paperwork, and files reports without mistakes. The office has to work quickly and efficiently to process orders and maintain documentation.



Working Memory

Working Memory is like the brain's mailroom. This is where new information is received, sorted, stored, and delivered.

The Working Memory Index measures a child's ability to register, maintain, and manipulate visual and auditory information in conscious awareness. These tasks measure one's skills in attention, concentration, and mental reasoning as well as visual and auditory discrimination. Working memory is a fundamental process for learning.



Impact

Reading Foundations	Given multisensory instruction Examples: Elkonin boxes tracing see, say, do picture supports sand trays finger tapping		
Students with weak working memory have difficulty attending to print cues and remembering letters remembering sounds to perform phonemic tasks. recalling sounds to decode words. remembering sight words. decoding multisyllabic words. recalling grade level sight words. reading with accuracy and fluency.			
Reading Comprehension	Given multisensory instruction		
Students with weak working memory have difficulty recalling details and information from grade-level texts. recalling details to determine the main idea in grade-level texts. remembering details about elements in grade-level texts. determining the meaning of words and phrases. attending to how grade-level texts are organized. recalling information from pictures and text. recalling facts from words and images in grade-level texts. remembering evidence that supports the author's point.	Examples: text annotation graphic organizers paraphrasing text transformation (reformulating text in as in a comic strip, foldable, or poem)		



Written Expression		Given multisensory	y instruction such as
Students with weak working memory have difficulty sequencing ideas a written opinion. planning and organizing informative writing. maintaining focus in narrative writing.		graphic organizers picture prompts color coded word banks record ideas in audio before writing	
Math		Given multisensory	y instruction such as
recalling numbers and attending while counting. analyzing place value. attending to and using properties. recalling facts to solve word problems. attending to and analyzing equations and expressions. applying math strategies and procedures. solving multi-step problems. precisely working with time, money and data. working precisely with geometry.		concrete or visual modeling manipulatives mnemonics procedural checklists think aloud	
Suggested Accommodations Presentation Strategies	Enagagement S	trategies	Expression Strategies
 Preview the lesson Connect new concepts to prior knowledge Use visuals to support information like anchor charts, diagrams, pictures Repeat instructions 	 Chunking Paraphrasing Highlighting relevant information Providing immediate positive feedback for effort and persistence 		 Use of guides and checklists Use of graphic organizers Sentence starters Word banks



Verbal Comprehension

Verbal Comprehension is like the brain's library. This is where the brain goes to find existing knowledge that is relevant and sufficient for understanding new concepts.

The Verbal Comprehension Index measures a child's ability to access and apply acquired word knowledge. Specifically, this score reflects one's ability to verbalize meaningful concepts, think about verbal information, and express oneself using words.



Impact

Reading Foundations	Given visual supports	
Students with poor verbal comprehension have difficulty comprehending print cues and letters. synthesizing sounds in spoken words. recognizing and analyzing word parts. decoding unfamiliar words. retrieving sight words. using context clues. reading with sufficient accuracy to support comprehension.	picture cues color coding word parts such as consonants and vowels, syllable patterns, or prefixes and suffixes context clue annotation phrase scooping to support fluency	
Reading Comprehension	Given visual supports	
Students with poor verbal comprehension have difficulty comprehending key details in grade-level texts. relating details to retell grade-level stories. relating to characters, settings, and events in grade-level stories. comprehending new words in grade-level texts. comprehending common text types. understanding author and illustrator roles in grade-level texts. describing relationships between illustrations and grade-level stories. comparing and contrasting grade-level stories.	graphic organizers anchor charts diagrams concept maps text annotation illustrations related multiple media	



Impact	Goal Conditio		;	
Written Expression		Given visual supports such as		
Students with poor verbal comprehension have expressing a written opinion. using domain vocabulary in informative writing due to limited schema for use in narrative writin		Ity graphic organizers picture prompts word banks sentence starters outlines		
Math		Given visual suppor	ts such as	
Students with poor verbal comprehension have difficulty understanding relationships between numbers, symbols, and words. comprehending and using math language. understanding properties. determining operations in word problems. abstract reasoning for solving time and money problems. comprehending data. recognizing similarities and patterns. understanding abstract math concepts. understanding geometry vocabulary.		concrete and/or visual modeling manipulatives real world problems and examples math vocabulary glossary with simple synonyms for math language highlighted information in word problems diagrams number lines anchor charts/concept maps clear and concise written directions		
Suggested Accommodations		-		
Presentation Strategies	Enagagement Strategies		Expression Strategies	

- Preteach new vocabulary
- Incorporate interests when teaching new concepts
- Use of graphic organizers to teach new concepts
- Highlight new vocabulary and major concepts

- Frequently check in with student to ensure comprehension
- Provide a word bank
- Connect new concepts to prior knowledge
- Provide a reward system

- Use anchor charts or word walls
- Provide visual to support new concepts
- Paraphrase what has been taught periodically during lesson
- Offer options to written assignments



Fluid Reasoning

Fluid Reasoning is like the brain's laboratory. This is where the brain follows methods and procedures. It experiments and learns by doing. This is where novel problems are solved and open questions are answered by using strategies, tools and resources. Fluid reasoning applies knowledge and rules, gathers relevant data, and generalizes information to solve problems.

The Fluid Reasoning Index measures a child's ability to detect the underlying conceptual relationship among visual objects and use reasoning to identify and apply rules. These tasks measure one's skills in attention, concentration, and mental reasoning as well as visual and auditory discrimination.



Impact

Reading Foundations	Given step by step instruction	
Students with fluid reasoning deficits have difficulty	Examples:	
adjusting reading based on print cues and letter recognition. sequencing and manipulating sounds in spoken words. applying strategies to decode and analyze unfamiliar words. applying morpheme knowledge such as tenses and plurals using strategies to read grade level sight words. reading grade-level texts with accuracy and expression.	teaching concepts from simple to complex direct explicit presentations explicit instruction in word patterns and rules breaking material into smaller chunks or time frames modeling fluent reading	
Reading Comprehension	Given step by step instruction	
Students with fluid reasoning deficits have difficulty	Examples:	
determining relevant ideas in grade-level texts. sequencing details to retell grade-level topics. connecting individuals, events, and ideas in grade-level texts. using parts of a book to understand texts. explaining information from illustrations and grade-level texts. explaining reasons for authors' points. generalizing information from different texts.	review of prior concepts crystal clear goals and objectives graphic organizers concept maps text annotation anchor charts exemplars think aloud problem solving strategies	



Impact		Goal Conditions	
Written Expression		Given step by step instruction	
Students with fluid reasoning deficits have difficulty organizing a written opinion. analyzing and applying relevant facts in informative writing. applying structure in narrative writing. Math		graphic organizers writing templates outlines use of resources	
		Given step by step	instruction
Students with fluid reasoning deficits have difficulty reasoning through word problems. representing numbers in a variety of ways. applying properties. reasoning related to place value. applying repeat reasoning to solve problems. sequencing steps in multistep problems. analyzing expressions and equations. applying abstract reasoning. determining appropriate tools and strategies for measurement.		providing exemplars modeling think aloud using manipulatives giving real world problems and examples highlighting relevant information in word problems posting anchor charts/concept maps providing procedural checklists	
Suggested Accommodations		I	
 Presentation Strategies Provide teacher think aloud when teaching new concepts Supply an outline of lessons Use numerous examples to explain new concepts Preview tasks and expectations 	 Enagagement Strategies Use graphic organizers to provide a summary of information Give analogies that are relatable Provide time for student to explain their work Designate a peer buddy to collaborate on task 		 Expression Strategies Provide time to verbalize thought process Show exemplars Supply procedural checklists Ask clear and concise questions



Visual-Spatial Reasoning

Visual Spatial Reasoning is like the brain's conference room. This is the part of the brain that reads graphs and diagrams, interprets data, and breaks information down from wholes to parts. This is where visualization happens, patterns emerge, and the mind maps concepts together.

The Visual Spatial Index measures a child's ability to evaluate visual details and understand visual spatial relationships to construct geometric designs from a model. This skill requires visual-spatial reasoning, integration and synthesis of part-whole relationships, attentiveness to visual detail, and sometimes using hand-eye coordination, and working quickly and efficiently with visual information.



Impact

Reading Foundations	Given clear verbal instruction	
Students with visual spatial deficits have difficulty	Examples:	
recognizing print cues, direction, and letters. forming letters. recognizing sight words. tracking print to read accurately and fluently.	modeling tracking using finger adding verbal directions to aid letter formation multiple opportunities to practice sight words in short phrases	
Reading Comprehension	Given clear verbal instruction	
Students with visual spatial deficits have difficulty	Examples:	
locating key details in grade-level texts. determining how details support a central idea. (seeing the big picture) determining how text elements fit together. locating details in pictures and graphics to determine meaning. recognizing different types of texts. analyzing visual media.	highlighting key details paraphrasing stories and texts think aloud for using text features captioned pictures and graphics opportunities to explain understanding verbally.	



Impact

Written Expression		Given clear verbal instruction	
Students with visual spatial deficits have difficulty		Examples:	
using text features to organize a written opinion. choosing and using graphics to support informative writing. visualizing ideas for narrative writing.		verbal prompts writing templates outlines	
I Math		Given clear verbal instruction	
Students with visual spatial deficits have difficulty modeling math problems. tracking numerals in equations and expressions. comparing quantities. visual spatial skills for understanding place value. understanding directionality and inverse relationships. recognizing place value. recognizing place value. recognizing part whole relationships such as fractions and ratios. working with time, money, and data. graphing expressions and equations. solving geometry problems.		Examples: verbal explanations of math concepts glossary of math definitions and procedures think aloud highlighted information in word problems opportunities to explain reasoning verbally concrete or real world models for geometry	
Suggested Accommodations			
 Presentation Strategies Provide clear and concise oral instructions Provide time for asking questions for clarification Pair oral instructions with visual/concrete manipulatives Check for level of understanding 	 Enagagement Strategies Build in time to summarize the important information from each lesson Provide uncluttered handouts with few or no nonessential images Provide a highlighter for key information while reading Clearly space words and problems on a page 		 Expression Strategies Provide copies of notes Use assistive technology Offer a choice of assessments/assignments Provide a lot of space for answers



Processing Speed

Processing is like the brain's office. This is where the brain organizes tasks, completes the paperwork, and files reports without mistakes. The office has to work quickly and efficiently to process orders and maintain documentation.

The Processing Speed Index measures a child's speed and accuracy of visual identification, decision making, and decision implementation. Performance is related to visual scanning, visual discrimination, short-term visual memory, visuomotor coordination, and concentration. This skill may be important to a child's development in reading, and ability to think quickly in general.



Impact

Reading Foundations	Given appropriately paced instruction	
Students with slow processing have difficulty processing print cues and automatic letter recognition. processing sounds in words quickly and efficiently. reading sight words automatically. reading with sufficient accuracy and fluency to support comprehension.	Examples: predictable lesson routines repeated practice use of familiar words and texts modeling prosody	
Reading Comprehension	Given appropriately paced instruction	
Students with slow processing have difficulty efficiently processing key details in grade-level texts. retelling grade-level stories. identifying characters, settings, and events in grade-level stories. processing the meaning of new words and phrases. processing different types of texts. recognizing roles of authors and illustrators. efficiently relating information from illustrations and text. comparing details in different texts.	Examples: providing familiar or preferred texts giving 8 second wait time for answering questions giving time for skimming and scanning previewing lessons reducing content and number of questions chunking giving ample time for error correction providing visual cues frequently checking for understanding	



Written Expression		Given appropriately paced instruction	
Students with slow processing have difficulty		Examples:	
formulating a written opinion. processing information to use in informative writing. persevering through narrative writing tasks.		shortening assignments showing exemplars offering alternatives to handwriting	
Math		Given appropriately paced instruction	
Students with slow processing have difficulty counting with automaticity. solving math problems quickly on paper. processing information in word problems. solving multi-step problems applying properties and procedures to solve problems. processing the meaning of expressions and equations. processing spatial relationships. efficiently working with time and money. translating and transferring data. processing and applying principles of geometry.		Examples: breaking down problems into smaller steps giving time for repeated practice of math facts annotating word problems giving only the number of problems to demonstrate mastery of concepts frequent checks for understanding 8 second wait time for verbal responses extended time on math assignments handouts with exemplars and simple written directions	
Suggested Accommodations Presentation Strategies • Create consistent daily class routines • Break the lesson into smaller chunks • Talk slowly when giving oral directions • Give simple written directions	 Enagagement Strategies Provide frequent checks for understanding Give extra verbal response time for answering questions Use of a highlighter or sticky notes Supply notes or lesson outlines 		 Expression Strategies Provide alternatives for lengthy handwritten assignments Show an exemplar before the start of the task Provide extended time to complete assignments Give access to tools that support processing (calculator/spell check)







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PLAN QUICKER

Click, click, connect impact to plans

Dot It planning helps teachers and teams generate plans in minutes that

- compliantly address cognitive challenges
- account for intensity
- are truly individualized so you know they will be effective

SERVE SMARTER

Click, click, connect standards to services

Dot It group lessons make it doable to

- teach students with all different impacts on grade-level at the same time
- schedule a defensible continuum of services that honors LRE
- ensure that the expectations in your plans on the instructional table every day

DOCUMENT CLEARER

Click, click, connect student work to documentation

Dot It documentation captures

- progress monitoring on grade-level standards using simple rubrics
- teacher notes about instructional effectiveness
- uploaded authentic student work that directly matches what is is in your plan



