

Literacy Therapy as an Intervention for Children with ADHD and Reading Difficulty



THE CHILDREN'S HOSPITAL OF THE KING'S DAUGHTER

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Agenda



- Introduction
- Assessment determination for Literacy Therapy
- Overview of Wilson Reading System (WRS)
- WRS Principles of Instruction
- WRS and ADHD

ADHD Assessment Procedure



- **Brief review of diagnosing ADHD**
 - Often fails to give close attention to details or makes careless mistakes in schoolwork, at work, or with other activities.
 - Often has trouble holding attention on tasks or play activities.
 - Often does not seem to listen when spoken to directly.
 - Often does not follow through on instructions and fails to finish schoolwork, chores, or duties in the workplace (e.g., loses focus, side-tracked).
 - Often has trouble organizing tasks and activities.
 - Often avoids, dislikes, or is reluctant to do tasks that require mental effort over a long period of time (such as schoolwork or homework).
 - Is often easily distracted
 - Is often forgetful in daily activities.

ADHD Assessment Procedure



- Good measure of cognitive functioning
 - WISC-V, DAS-II, WWJ-IV
- Measure of executive functioning
 - DKEFS, NEPSY, CPT
- Academic functioning assessment
 - Either through school or educational consultants
- Parent behavior rating scales (adaptive functioning)
 - Connors, BASC, CBCL
- Teacher behavior rating scales
 - Connors, BASC, CBCL

CHKD Assessment Procedure



- Literacy evaluation-selected subtests from the following:
 - Reading: WMRT-III
 - Phonological Awareness: CTOPP-2
 - Spelling: TWS-5
 - Written Expression: CELF-5
- Scores are compared with cognitive and academic assessment

Overview of the Wilson Reading System



- The Wilson Reading System is a comprehensive intensive program for students in grades 2 and higher, including adults, with significant reading and writing deficits at the word level, and/or poor automaticity and fluency, especially those with a language-based learning disability such as dyslexia.
- The teacher- and student- friendly program is based on phonological-coding research and Orton-Gillingham principles.
- The overriding goal of the Wilson Reading System is to have students independently read grade-level (both narrative and informational) with ease and understanding.
- Instructional goals are to develop:
 - Accurate and speedy word recognition
 - Spelling and proofreading proficiency
 - Increased vocabulary, background knowledge, and listening comprehension skills
 - Fluency with an emphasis on expression and meaning
 - Grade level independent silent reading skills with narrative and informational text

WRS Overview



- The WRS combines both a synthetic and analytic phonics approach with explicit instruction in total word structure so that student learn strategies to independently read and spell words.
- WRS follows a 10 part lesson plan, organized into three Blocks.
 - Block1 (Parts 1-5: Word Study/Foundational Reading Skills)
 - ✦ Phonemic awareness, Decoding, Vocabulary, High Frequency Word Reading, Single Word Accuracy/Automaticity, Phrasing/Prosody, Fluency and Comprehension at the Sentence Level
 - Block 2 (Parts 6-8: Spelling/Foundational Writing Skills)
 - ✦ Phonemic segmentation, Encoding at Single Word Level, English Spelling Rules, High Frequency Word Spelling, Concept Mark up, Sentence-Level Spelling, Punctuation, and Proofreading.
 - Block 3 (Parts 9-10: Fluency and Comprehension)
 - ✦ Listening/Silent and Oral Reading Fluency and Comprehension of Narrative and Informational Text

Wilson Reading System Principles of Instruction



- **Direct and Explicit**

- Instruction is straight forward, with teacher directly teaching all concepts and skills to students through explanation, modeling, and active listening
- Independent work is only given for previously learned strategies after it is modeled and then carefully monitored.
- Optimal learning is facilitated by scaffolding instruction through a gradual release of responsibility model

- **Structured, Sequential**

- 12 steps guide students through a logical system of word structure
- Connections are made to previous learning

- **Integrated**

- Word study is organized around six syllable types, with new sounds being introduced as they related to syllable type
- Phonology, morphology, and orthography instruction are systematically taught in organized way

WRS Principles of Instruction (Continued)



- **Multisensory**
 - Learning involves active participation
 - Skills are taught and reinforced through visual, auditory, tactile, and kinesthetic senses
- **Synthetic and Analytic**
 - Students learn to both construct words and deconstruct words in order to read and spell them
 - Students learn to break down sentence into meaningful parts and then reconstruct them to understand the text as a whole
- **Diagnostic and Prescriptive**
 - Plan and teach based on student mastery of concepts taught
- **Teaches to Mastery and Automaticity**
 - Multiple and varied opportunities are provided to practice and reinforce all skills
 - Information is presented in different ways and with varying activities within a lesson, and students demonstrate their understanding and application of concepts through a variety of tasks

WRS Principles of Instruction Continued



- **Cumulative, Spirals Back**
 - Previously taught skills are brought forward cumulatively
 - New skills build upon previously taught ones and are presented explicitly
 - Each Step builds on the one before it; learning occurs through constant repetition and review
- **Cognitive**
 - Engaged in metacognitive thinking because it is essential that they understand the underpinnings of word structure and can explain, apply, and generalize the concepts.
- **Emotionally Sound**
 - Expectations are clear and manageable
 - Significant opportunities to practice with immediate, specific, and supportive feedback are provided
 - Self-efficacy develops as students see that each Step in an increment and that their small successes add up to very measurable achievements

The Impact of ADHD on Literacy Skills: A Modified Approach



Attention



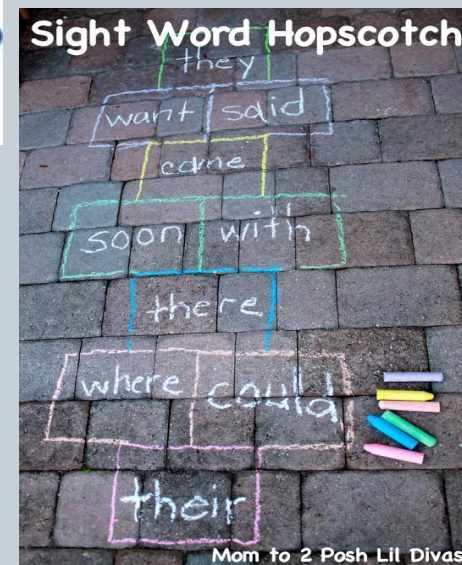
- Students with ADHD may demonstrate difficulty sustaining attention during learning sessions
- The constant need to for movement sensory input contribute to fidgeting, sliding off chairs and slouching into positions that interfere with writing and other fine-motor activities
- Modifications to facilitate sustained focus
 - Limiting stimuli
 - Adaptive seating/alternative positioning



Hyperactivity



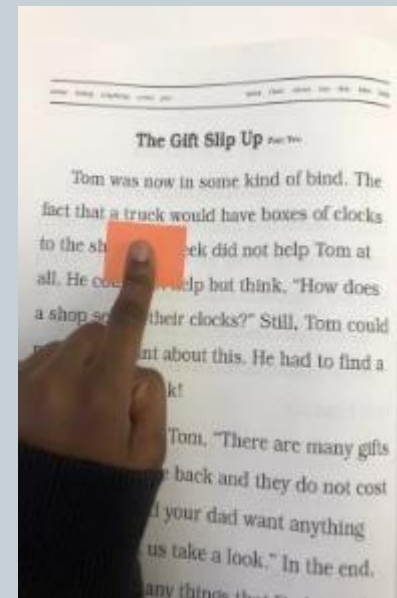
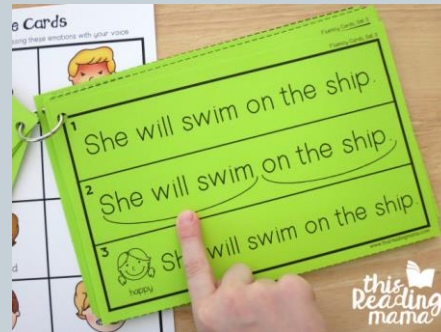
- Children with ADHD may experience high levels of impulsivity and hyperactivity that contribute to difficulties with literacy development
- Facilitate a student's movement so that they can maintain the level of alertness necessary for cognitive activities
- Involve movement in learning
 - Magnetic board
 - Scooter board
 - Scavenger hunt



Reading Accuracy and Fluency



- Inattention may result in missed phrases in the text, omission of words within sentences, and loss of place/tracking difficulty
- Modifications
 - Tapping out of sounds
 - Tracking
 - Scooping or phrasing



Spelling accuracy



- Inattention may lead to spelling errors related to letter omissions, additions, or substitutions
- A multisensory teaching method is an effective way for children to learn
- Modifications
 - Side walk chalk
 - Easel painting
 - Shaving cream
 - Writing on different surfaces



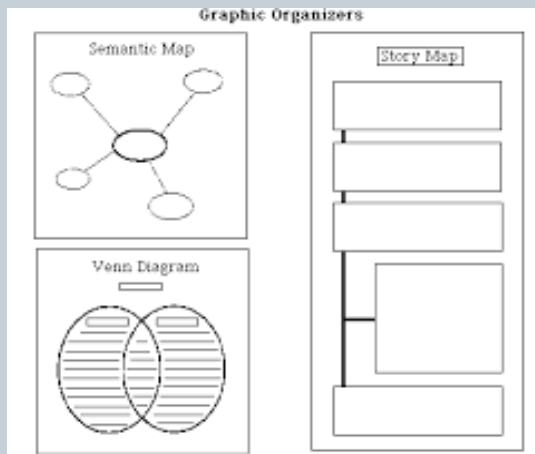
Comprehension



- In order to grasp reading material, a student must be able to recognize and decode words as well as sustain attention and effort.
- Reading Comprehension requires the ability to effectively use working memory and processing information in an efficient and timely manner
- Therefore, reading comprehension may suffer as a result of poor oral language and comprehension, lack of reading exposure/outside experiences, weak executive function (especially working memory, planning, and organization), slower processing speed with verbal information, and ADHD-lack of attention (Cain & Bignell, 2014).

Comprehension Modifications

- Use topics of high interest
 - Easier time maintaining attention on exciting and stimulating passages
- Reduce length of passage
 - Use passages ranging from 50-100 words
 - Visualization strategies

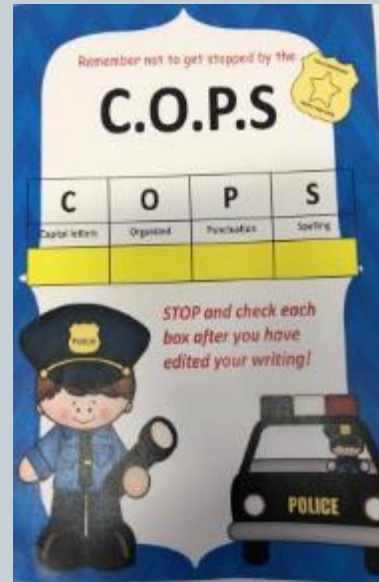


Written Expression



- The process of writing involves the integration of several skills
- Children with ADHD may have problems with focus and attention to detail, making it likely to make an error with spelling and details
- Modifications
 - Writing on topics of interest
 - Graphic organizers
 - COPS

A writing template for Oreo Double Stuffed cookies. It features the Oreo logo and the text "Double Stuffed". Below the logo are fields for "Name: _____" and "Topic: _____". The template is divided into four sections, each with a label and a large rectangular writing area: "Opinion -", "Reason One -", "Examples-", and "Reason Two-", followed by "Examples-" and "Opinion -".



Achieving Success



- Parents are an essential part of the intervention process
- In order to see sufficient results,
 - Dedication to the intervention by attending 2 treatment sessions a week
 - To achieve carryover of skills in other settings (e.g., classroom), activities provided by the therapist must be completed
 - Maintain the student binder which is created as a resource for the student
 - Positive reinforcement
- Collaboration will help the student in reaching his or her full potential