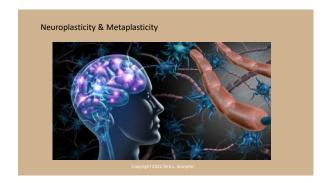
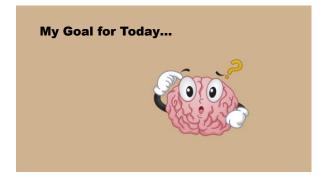
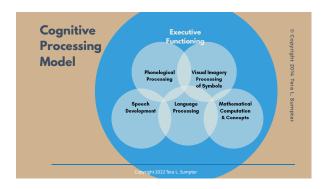
# Executive Functioning More Than Just Attention Tera Sumpter, M.A., CCC-SLP



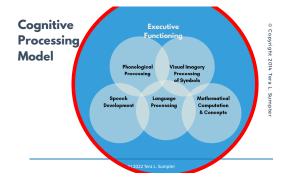








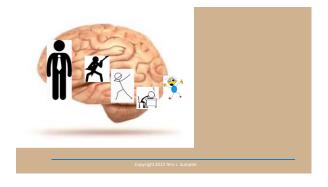


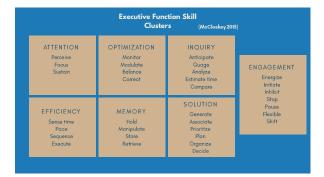




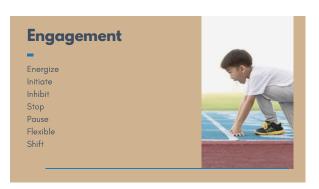






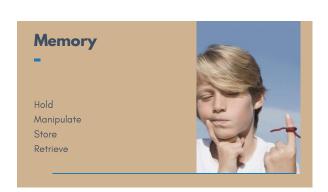


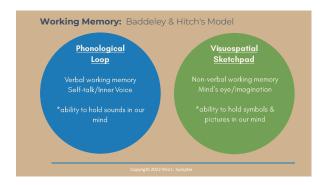


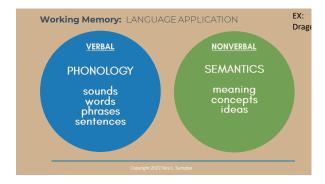


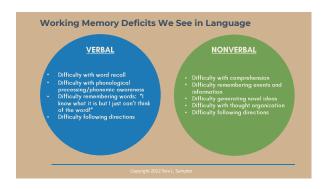
# Optimization Monitor Modulate Balance Correct

# Efficiency Sense time Pace Sequence Execute















## PERFORMANCE (producing DIFFICULTIES

# Knowing WHEN vs knowing how

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# SOCIAL PRAGMATICS

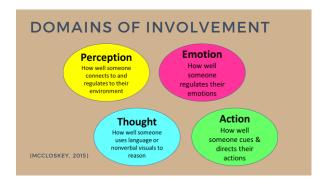


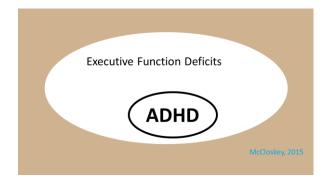
- PERCEPTION
- FOCUS
- ATTENTION
- INHIBITION
- SELF-MONITORING
- WORKING MEMORY

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XECU	ITIVE	FU	NCT	ION	IING
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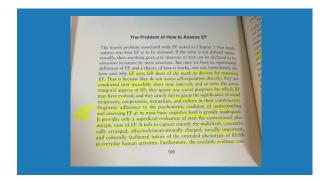
is slow, effortful, not automatic and requires a lot of energy to activate!

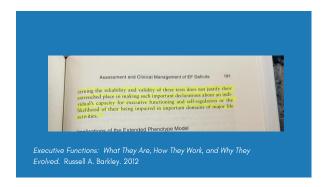
## **ASSESSMENT**

MUST BE DYNAMIC

"Barkely (2012b) has offered a multipronged critique of psychometric tests as measures of executive functioning. He points out that these tests have been shown to have only low to moderate reliability." -Dawson & Guare, 2018

"Best practice in the assessment of executive function must extend beyond the use of formal standardized measures." -Dawson & Guare, 2018





## **FORMAL MEASURES**

- PSYCHOMETRIC EVALUATIONS
- PARENT/TEACHER/SELF-REPORT RATING SCALES SUCH AS THE MEFS, BRIEF, CEFI

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## **INFORMAL MEASURES**

- CASE HISTORY
- INTERVIEW
- OBSERVATION: Patterns of Processing
- PARENT/TEACHER QUESTIONNAIRES
- WORK SAMPLES
- EF TASKS (ALPHABETIZING, CROSSING OUT)

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Receptive/Expressive language inversion

• EF heads up!

## Executive functioning is required for every test.

### The CELF-5 Through an EF Lens

### **Word Classes**

- can't retain 4 words (verbal working memory
- doesn't know vocabulary
   can't determine relationship between words (nonveral working memory)

### Formulated Sentences

Difficulty holding onto word and manipulating words to create sentence (working memory

### The CELF-5 Through an EF Lens

### **Recalling Sentences**

- Verbal working memory demand Replaces words with synonym (using nonverbal working memory)

### <u>Understanding Spoken Paragraphs</u>

High EF demand: sustained attention & working

If we are not assessing EF, then we must support EF during the assessment process.

### Student A

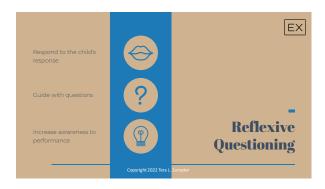
- · "in his own world"
- · unaware of his mother when she talks to him.
- parents were concerned early on that he might be deaf since he didn't respond to his name or other verbalizations.
- · does not observe other children when they are playing or communicating.
- · happy to be left alone to do his own thing.
- speech and language are both significantly delayed.

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Student B	
<ul> <li>happy, curious little boy</li> <li>loves playing with toys and exploring his yard</li> <li>typically plays with one toy for just a few minutes before moving onto the next one</li> <li>only completes one of several given directives</li> <li>often lost and does not understand the tasks that need to be completed at school</li> <li>teacher has to repeat directions multiple times</li> <li>spends most of the time looking around the room or playing with his shoe during story time</li> <li>often doesn't remember the story once it's finished</li> </ul>	
Student C  Teacher reports: Inconsistent performance Lazy, needs to try harder on work Doesn't following directions Turns in poorly completed work with lots of mistakes CELF-5 results: WNL on all subtests except USP (below average) Reading accuracy: below average Read very quickly, unaware of mistakes, did not fix any errors Been in reading intervention for years Reading comprehension: below average Been in speech therapy for years due to poor generalization	
Female, 8-yo: narrating Buddy story	

# WHAT CAN WE DO? • INCREASE AWARENESS • VISUALIZE • PLAN • SELF-EVALUATE





What are your thoughts?
Where should your thoughts be?
Is that what you should be doing?
What should you be doing right now?
Is that important right now?



How did you do that?

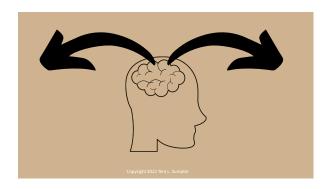


Reflexive Questioning Example	
Speech Target /g/. Child says /d/.	
Target word:	
"splet"	
Target word: "drays"	

Township and a second s	
Target sentence:	
"She went to the	
park."	
Target sentence:	
"She took her	
dog with her."	
dog with her.	
	-
Peflevive Questioning	
Reflexive Questioning	
Active vs. passive learning	
<ul> <li>meet them where they are: dinner visitor</li> </ul>	









Ways to Stimulate Imagery for Comprehension



- Ask the kids to draw a picture of how they imagined a scene from the story
- Tell kids that their imaginations can make better movies than any film maker!
- For story recall: review the pictures that you all saw in your imagination. First we saw Sahara eat breakfast. Then we saw Sahara go to school. Last we saw Sahara go to hed

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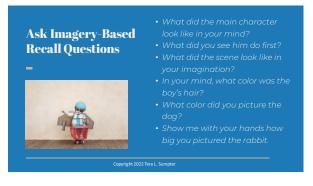
### Use Imagery-Rich Language



- Your words make me picture this Does that match? Is that what you want me to picture?
- When you said that the boy was wearing an oversized shirt, that gave me a great picture in my imagination!
- Boys and Girls, as we read the story together, what do you see yourselved doing as I read? "Making a movie in our mind!"

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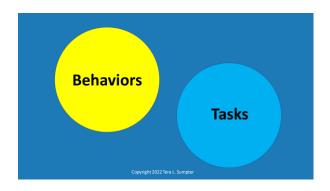
# Set the Stage for Imagery "We're going to read a story. Everyone put on their imagination hats! We're going to make a movie in our imagination as we read."















Go left to right (can start with a tracking plan, if needed)
 Touch each word and say word
 Keep going until you see a period
 Take a breath at the period
 Repeat steps 1-4 until finished

Read one sentence. Stop at the period. At the period, make a picture in imagination that matches the	Plan for Reading Comprehension
sentence. • Reread sentence, if needed.	
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## Plan for Listening

1. Thoughts on the speaker's words



### Plan for Thinking of an Answer

- 1. Look in my brain for the answer
- 2. Ask myself, "Is this the right answer?"
- 3. "Yes" say answer
  "No" repeat steps 1, 2, 3, 4







Puttin	g It	All	Tog	ether
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Kiddo Case 1	
<u>C.A.</u> : 8	
Grade: 3 <sup>rd</sup>	

- Parent Report:
   Hardworking
   Information doesn't "stick"
   Trouble remembering things
- Struggling in all aspects of school

- Clinical Observation:

  Phonemic awareness: difficulty remembering target words
  Difficulty repeating chains at the CV/VC level
  Cannot recall CV/VC chains after 5 second
- CELF: asks for repetitions on almost every question. CELF: below average range Conversation is choppy

### Teacher Report:

- · Requires near constant
- reminding of directions
- Struggling in all academic areas
- Disorganized

Dx:	(1) executive functioning impairment characterized by deficits in verbal
wor	king memory and (2) language disorder. (3) reading impairment

### Sample Goals:

- Child will repeat with no delay a CV/VC+ chain with 90% accuracy to improve phonological processing/verbal working memory for executive functioning and language.

  Child will repeat with a 2+ second delay a CV/VC+ chain with 90% accuracy to improve
- phonological processing/verbal working memory for executive functioning and language.
- Child will identify the order and identity of sounds in a CV/VC syllable with 90% accuracy to improve phonological processing/verbal working memory for executive functioning and language.
- Child will manipulate sounds in a CV/VC syllable with 90% accuracy to improve phonological processing/verbal working memory for executive functioning and language.

  Child will initiate a 2-3 step concrete plan with 90% accuracy to improve his executive
- functioning skills.
- Child will follow a 2-3 step concrete plan with 90% accuracy to improve his executive functioning skills.
- Child will self-evaluate a 2-3 step concrete plan with 90% accuracy to improve his executive functioning skills.

1. Repeat CVVIC chans Is eg.* "say /ph/, 7ap/, with no delay  - Sout task by creating path for task & visualizing, self-evaluate plan when done  2. Repeat CVVIC chains with 2 second delay  - Start task by creating path for task & visualizing, self-evaluate plan when done  - A. Constant reflexive questioning!  - **Can take dato and I* gool from these 3 takis  - "if speech errors were present, i would use target speech sounds in above tasks  - "if speech errors were present, i would use target speech sounds in above tasks  - "if speech errors were present, i would use target speech sounds in above tasks  - **Constant reflexive questioning!  - **Constant reflexive questioning in the self-evaluate plan when done  - **Constant reflexive tasks and task	Sample Therapy Plan	
2. Repeat CV/VC Chains with 2 second delay Start task ty creating a plan for task & visualizing, self-evaluate plan when done  4. Constant reflexive questioning!  *Can task data on all 7 goals from these 3 tasks  *If speech errors were present, I would use target speech sounds in above tasks  *If speech errors were present, I would use target speech sounds in above tasks  *Constant reflexive questioning!  *Can task data on all 7 goals from these 3 tasks  *If speech errors were present, I would use target speech sounds in above tasks  *Claical Chromostor:  *Reading assessment: bloow average many flams on the second of the sec		
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Sample Therapy Plan	
<ol> <li>Card sorting activity</li> <li>Have student create a plan for the task: write on board</li> </ol>	
<ol> <li>Visualize plan</li> <li>Ask student to estimate how long they think it will take to complete</li> </ol>	
4. Student executes plan. Clinician times child.	
<ol> <li>Self-evaluate plan</li> <li>Ask student how long they think it took to complete</li> </ol>	
7. Compare original time estimate to final time estimate to actual time	
8. Constant reflexive questioning!	
*can take data on all 5 goals from this task	
Kidda Coo 2	
Kiddo Case 3 C.A.: 9-5	
Grade: 4 <sup>th</sup>	
Parent Report:	
Very active/always in motion     Difficulty completing homework     Needs frequent movement breaks	
Interrupts frequently     Very loud     Desn't raise hand in class     Frequently talks over teacher and other	
kids  Clinical Observation:  Poor thought organization  Poor thought organization  Clinical Observation:  Kids bright. Has great ideas, but struggles to complete classwork	
Poor thought organization     WNL receptive and expressive language     WNL receptive and expressive language	
Writing sample: ideas very unorganized	
Rushed through all activities     Lots of off-topic conversation	
Dx: executive functioning impairment characterized by	
deficits in inhibition, self-monitoring and self-correcting	
Sample Goals:	
1. Child will initiate a 2-3 step concrete plan with 90%	
accuracy to improve his executive functioning skills.	
2. Child will follow a 2-3 step concrete plan with 90%	
accuracy to improve his executive functioning skills.  3. Child will self-evaluate a 2-3 step concrete plan with	
90% accuracy to improve his executive functioning	
skills.	

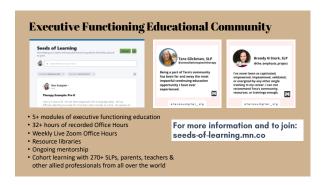
Sample Therapy Plan  1. Introduce planning & visualization  2. Target main concerns through planning:	
Inhibiting off-topic conversation	
<ul> <li>Self-regulation of hands/touching/taking</li> <li>Self-modulation of loudness level</li> </ul>	
<ul> <li>Self-modulation of loudness level</li> <li>Reflexively question constantly</li> </ul>	
For Inhibiting Touching & Taking Items	
Create a plan for touching and taking	
1. Keep hands folded/keep hands inside square on table	
If I want to touch something, ask Ms. Tera     If Ms. Tera says yes, I can take and touch it	
4. If Ms. Tera says no, keep hands folded/inside square	
Visualize plan     Practice/Role Play	
Practice/Role Play     Provide feedback with reflexive questions	
5. Self-evaluate	
	-
For self-modulating loudness level	
1. Introduce planning & visualization	
Create a plan for self-modulating loudness level     Quiet voice (library): blue & discuss feeling	
Middle voice (most settings): green & discuss feeling/tension	
3. Loud voice (outdoor): red & discuss feeling/tension	
3. Visualize plan	
4. Practice/Role Play	
5. Provide feedback with reflexive questions	
6. Self-evaluate	

### **Group Therapy Session**

- 1. Choose activity for the session that meets the needs of the group
- 2. Make a plan for that activity before executing
- Clinician can make the plan
- 2. One student can make the plan
- Each student can make one step of the plan
- 4. Each student can make their own plan
- 3. Visualize Plan
- $\bullet\,$  Work all of your speech and language goals here during description
- 4. Execute activity
- 5. Self-evaluate
- How well did the plan work?
   Did Samira's plan work?
- Did George have a better plan than Sammy? If so, why?
   Constant reflexive questioning!







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