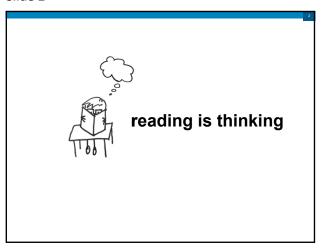
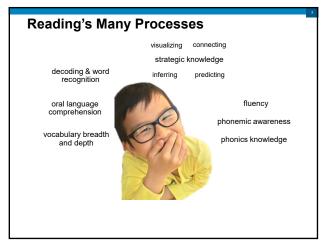


Slide 2





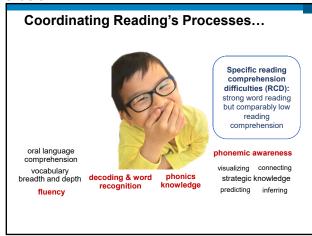
What's the goal?

"The only purpose for reading is to comprehend the author's message...For a long while it was assumed that...once a reader was able to identify words on a page, comprehension of the text would follow automatically. That has turned out not to be the case."

(Wagner, Schatschneider, & Phythian-Sence, 2009, xi)

Slide 5

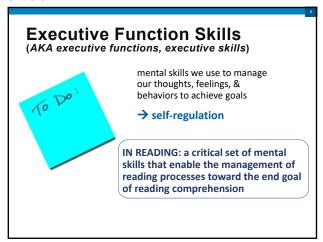




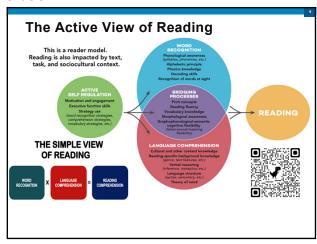
Slide 7



Slide 8

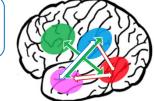


Slide 9



The Brain's Reading Network

Students with dyslexia and RCD have weak connections in the reading network and weak executive skills!



Phonological/Sounds Semantic/Meanings

Letterbox/Print

Executive Functions

Slide 11

Specific Executive Functions Underlie Skilled Reading

planning & organization (Cutting, Materek, Cole, Levine, & Mahone, 2009; Locascio, Mahone, Eason, & Cutting, 2010)

working memory (Borella, et al., 2010; Cain, 2006; Carretti, Cornoldi, De Beni, & Romanó, 2005; De Beni, Palladino, Pazzaglia, & Cornoldi, 1998; Oakhill, Hartt, & Samols, 2005)

cognitive flexibility (Cartwright, Bock et al., 2017; Cartwright, Coppage et al., 2017; Colé et al., 2014; Søndergaard Knudsen et al., 2018)

inhibition (Borella, Carretti, & Pelegrina, 2010; Cain, 2006; Locascio, et al., 2010)

social understanding (Brown, Oram-Cardy, & Johnson, 2013; Cartwright et al., 2017; Guajardo & Cartwright, 2016; Zelazo & Carlson, 2012)

Slide 12

Teaching and Supporting Executive Functions

- Requires that we TALK about THINKING in ways that may be unfamiliar to us
- Goes beyond comprehension strategies & typical thinkalouds
- Is also familiar because it brings together many things that we already do!

Teacher Talk Examples: "Good readers are good thinkers..."

- Good planners: Know why they are reading and make a plan to get there
- Organized thinkers: Know how words, sentences, and texts are put together and use what they know to help them remember what they read
- Are flexible thinkers: Can think about, switch between, and do lots of things at the same time
- Have good memories: Can keep some things in mind while doing other things

Slide 14

Teacher Talk Examples (continued): "Good readers are good thinkers..."

- Are good at ignoring (inhibiting) things that are not important to understanding
- Are good "mind readers": Can think about characters' thoughts and feelings

Making INVISIBLE processes VISIBLE for students!

Slide 15

Planning and Reading

- Planning in reading involves many things we know successful readers do (Duke & Pearson, 2002; Israel et al., 2005; Paris et al., 1984; Pressley & Afflerbach, 1995)
- Involves goal-setting and teaching students steps they can take to reach their reading goal for a particular text
- Explicit explanation and tools to make the plan visible

Good readers are good planners: Know why they are reading and make a plan to get there

Planning For Students

My Plan to Understand

First ask: Why am I reading? What is my goal?

Then, with my goal in mind . . .

- Preview: Looking through the book, what do I see to help me get there?
- Focus: Should I pay more attention to some parts and slow down for others?
- Connect: What do I already know about this topic that will help me reach the goal?
- Question: What goal-related question(s) can I ask myself?
- Predict: What do I guess will be in this book?
- Strategize: What other steps can I take to reach my goal?
- Reflect: What will I know when I'm done?

FIGURE 2.2. A planning guide for your students.

Slide 17

Organization Example

How many sentences can you make with these words? book fun a good reading is

Slide 18

Similarly, with words....

teaching phonics and spelling patterns = how letters are organized to create words; focus on the INTERNAL STRUCTURE of words

WBLOE

Organization and Reading

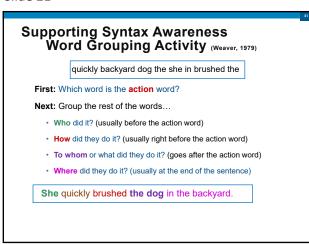
Recognition of organization already in words, texts

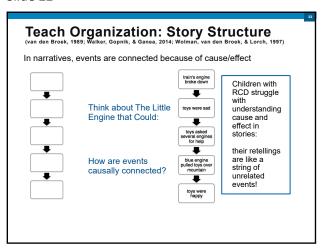
- spelling patterns (letter/sound organization)
- syntax (word order)
- text structure (narrative or informational structures)

Ability to USE a word's organization to decode it; or a text's organization to understand and remember what's in it

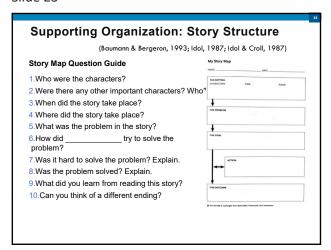
Good readers are organized thinkers: They know how words, sentences, and texts are put together and use what they know to help them remember what they read

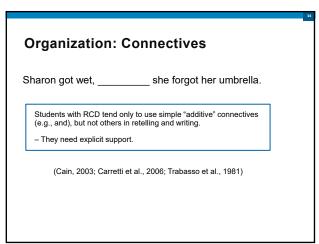
Slide 20





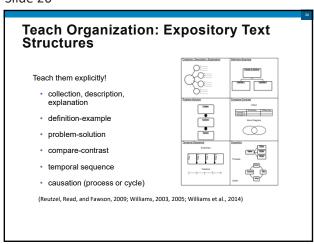
Slide 23

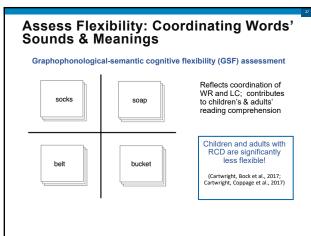




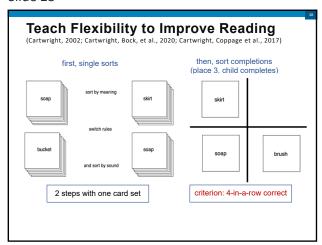
More on Connectives (Cain, 2003; Carretti et al., 2016; Trabasso et al., 1981) Track and teach use of connecting words when • Story sequencing (putting pictures in correct order) with verbal explanation for WHY they are connected • Retelling • Narrating of wordless picture books • Writing Explicitly teach connecting words, such as: Independence Between Ideas: and, additionally, now, as well, also, in addition... Dependence (Connection) Between Ideas: if, but, because, so, so that, in order to, however, in contrast, or else, instead of... Time Sequence: later, first, next, since, and then, when, before, finally...

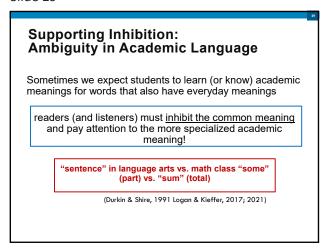
Slide 26

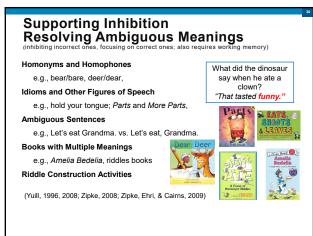




Slide 28







Supporting Working Memory: Resolving Anaphors

Sally loves to go the the park with lane because she always pushes her very high on the swings.

Authors use **shortcuts** when writing. They **substitute shorter words or phrases for longer bits of text**, and we have to figure out what they mean. Requires holding words in mind so you can connect them to later words.

(Francey & Cain, 2015; García-Madruga et al., 2013; Oakhill & Yuill, 1986; O'Connor & Klein, 2004; Yuill & Oakhill, 1988)

Slide 32

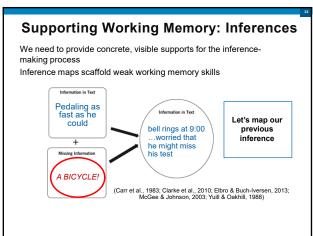
Supporting Working Memory: Inferences

It was 8:55, and the bell rings at 9:00. Andy was pedaling as fast as he could, because he was worried that he might miss his test.

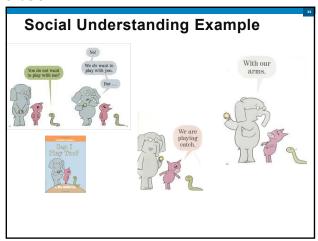
Where was Andy going? (Text-connecting, local coherence inference)

How was Andy getting there? (Gap-filling, global coherence inference)

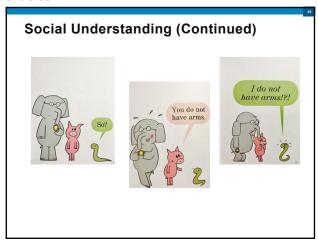
(Bowyer-Crane & Snowling, 2005; Cain & Oakhill, 1999; Elbro and Buch-Iversen, 2013)



Slide 34

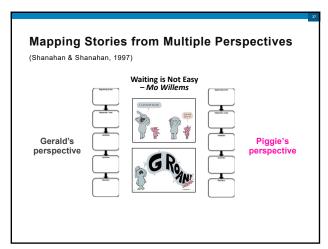


Slide 35



Social Understanding is Key... (Carnine, Stevens, Clements, & Kameenui,1982; Guajardo & Cartwright, 2016; Lysaker & Miller, 2002) Required to understand WHY characters do what they do Supports social inference-making – essential for narrative texts and social informational texts (e.g. history and social studies) Supports understanding of author's purpose Reciprocal: Adults who read more fiction have better social understanding! (Kidd & Castano, 2013) Good readers are good "mind readers": Can think about characters' thoughts and feelings

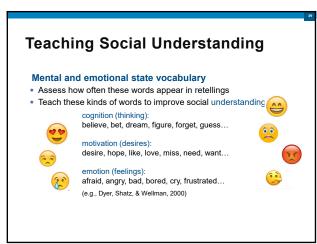
Slide 37



Slide 38



Slide 39



Summary of Today's Interventions Support students by enabling:

A more planful, goal-directed approach to reading

Explicit attention to language and text organization and structure with concrete supports

A more flexible focus on meaning in addition to words' sounds, AND the ability to shift between them

The ability to consider multiple word meanings and inhibit meanings inappropriate for text context

The ability to resolve pronouns, make inferences, and connect ideas by using concrete supports

The ability to make social inferences

Slide 41

Key Takeaways

Students with reading difficulties often have problems that extend beyond word recognition and language comprehension

They may also have executive function (EF) weaknesses, which can underlie their difficulties with language and reading processes

Instruction for students with reading and EF problems must be

- Explicit about the thinking processes involved in reading
- Intentional about providing concrete supports that scaffold the executive skills underlying reading

Slide 42

Do you notice executive function issues in your students?

How can you intentionally support your students' executive skills in reading?



20% Discount Code:

AF2E



Email: kelly.cartwright@cnu.edu

Twitter: @KellyBCartwrig1

Slide 43

