

Provincial Outreach
Program for the Early Years

Building Strong Literacy Foundations

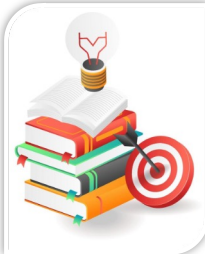
Bringing together the reading brain and foundational literacy skills

Presenter:
Jen Kelly

www.pohey.ca @poheyc @POPEYBC POPEY

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Learning Objectives

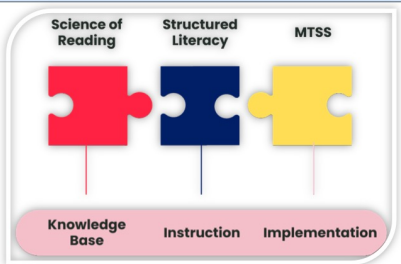


- Understand how the brain learns to read
- Explore foundational skills: phonemic awareness, phonics, vocabulary, fluency, and comprehension.
- Gain practical tools to enhance literacy instruction

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Let's Clarify Some Terms



Introduction to MTSS - ONLJ, 2024


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De-mystifying the Science of Reading

The Science of Reading Is **NOT**:

- An ideology or philosophy
- A fad, trend new idea or pendulum swing
- A political agenda
- A one-size-fits-all approach
- A program of instruction
- A single, specific component of instruction such as phonics



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Science of LEARNING

The Science of Reading

IS:

- A vast, interdisciplinary body of scientifically-based research about reading and issues related to reading and writing.
- Based on research that has been conducted over the last five decades across the world, and it is derived from thousands of studies in multiple languages.
- An abundance of evidence to inform:
 - how proficient reading and writing develop;
 - why some have difficulty; and
 - how we can most effectively assess and teach ...
 therefore, how to improve student outcomes through **prevention** of and **intervention** for reading difficulties.




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Structured Literacy: Meeting the Needs of All Learners

Structured literacy:

- an evidence-based instructional approach
- comprehensive – addressing listening, speaking, reading, and writing
- characterized by **what** content is taught and **how** content is taught



A comprehensive approach that meets the needs of all learners

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Structured Literacy: an approach that meets the needs to all learners

WHAT is taught: • Both Foundational skills & Higher-level literacy skills

HOW it is taught:

- Systematic and Cumulative: simple to complex/follows a scope and sequence
- Explicit
 - Direct instruction
 - "Today we are learning to."
- Continuous student-teacher interaction
- Not assuming all students can infer concepts
- Careful and considered practice
- Prompt and specific feedback (corrective if needed)

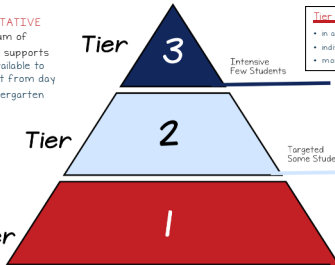


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MTSS - Multi-Tiered System of Supports

A PREVENTATIVE continuum of instructional supports that are available to every student from day one of Kindergarten.



Tier 3

- in addition to Tiers 1 and 2
- individualized intervention
- more time, smaller groups

Tier 2

- extra doses of support for a small body of students
- in addition to Tier 1
- delivered in small groups

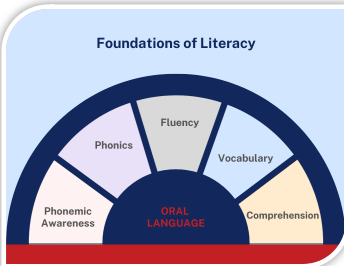
Tier 1

- comprehensive, universal instruction for all students
- primary prevention of reading failure

Stephanie Staller Reading Science Academy - 2021 www.popey.ca @popeybc @POPEYBC POPEY

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Foundational Skills for Reading




Proficiency in these foundational skills is necessary to all students to be reflective, critical and independent readers

National Reading Panel, 2000 www.popey.ca @popeybc @POPEYBC POPEY

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Phoneme Awareness

Is the awareness that words are made up of individual sounds



Phonological Awareness Skills

- Word Awareness
- Blending and Segmenting
- Syllables
- Onset-Rime
- Phonemic Awareness

phonological sensitivity skills

Phonemic Awareness is essential for learning to read

* Can be taught without students first mastering phonological sensitivity skills (rhyme, segmenting syllables) *


Shawch, 2009, 2009 | www.popey.ca | @popeybc | @POPEYBC | POPEY

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Reminder

"Phonemic awareness is the most potent predictor of success in learning to read"

It is more highly related to reading than tests of general intelligence, reading readiness, and listening comprehension."

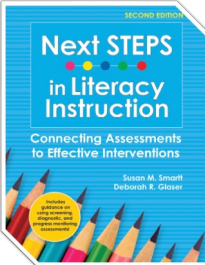


Shawch, 2009, 2009 | www.popey.ca | @popeybc | @POPEYBC | POPEY

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"Teaching phonemes along with letter names and letter formation supports students' development of phoneme awareness.

This combined instruction is more effective than teaching awareness solely through segmenting and blending auditorily." (p. 55)

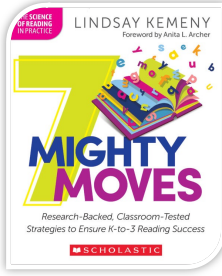


Small & Goswami, 2003 | www.popey.ca | @popeybc | @POPEYBC | POPEY

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Guiding Principles - How?

- Explicit, systematic, nothing to chance/discover
- Multiple opportunities throughout day – sprinkling
- Model & support
- Abundance of practice
- Brief (max 20 hours per year, or less than 30 minutes/week) (Tied to PHONICS)



7 Mighty Moves – Kemeny 2023 | www.popegc.ca | @POPEGC | POPEY

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Ideas for Instructional Strategies:

- Use manipulatives to keep it playful**
 - Elkonin boxes + bingo chips
 - Pop It fidget toys
 - Race cars + tracks
 - Unifix cubes
- Encourage gestures**
 - Hand choppers
 - Tap down arm
 - Finger/thumb tap
- Word Chains** – build phonemic awareness and phonics skills at the same time

Phonological Awareness: Readability | www.popegc.ca | @POPEGC | POPEY

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Reminder...



Erhi et al. suggest that "phonemic awareness is not taught for its own sake but rather for its value in helping children understand and use the alphabetic system to read and write".


Further, that it ought not to be taught ***blindly in isolation and nuseam without any connection to reading and writing*** (2001).

Erhi et al. 2021 | www.popegc.ca | @POPEGC | POPEY

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Sources of Insight

- **Screening:**
 - Phoneme Segmentation Fluency (PSF) – Kindergarten to early 1st grade
 - Measures a student's ability to break a spoken word into its individual phonemes.
 - First Sound Fluency (FSF) – Beginning of Kindergarten
 - Measures a student's ability to isolate and pronounce the first sound in a spoken word.
- **Spelling samples** also provide insight into how well students are segmenting phonemes in words



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Making Sense of Screening

<p>Look at Comprehension (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Continue to provide explicit reading instruction and oral language</p>
<p>Look at Text-Level Rate (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Teach vocabulary, syntax, morphology, and comprehension strategies</p>
<p>Look at Text-Level Accuracy (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Provide strategy instruction (explicit modeling, etc.) with oral language</p>
<p>Look at Decoding (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Teach orthographic knowledge, including phonics and the relationship between sound and spelling</p>
<p>Look at Phonemic Awareness (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Provide explicit, systematic instruction in phonics, spelling, and writing</p>
<p>Look at Phonics (Students: AMO, Assisting Comprehension, etc.)</p> <p>Weak → Proficient</p>	<p>Teach phonics, morphology and spelling</p>

A weakness in the area of phoneme awareness may exist for older struggling readers, and needs to be addressed.

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Readiness Skills

The two best predictors of early reading success are phonemic awareness and a student's understanding of the alphabetic principle.

Alphabetic Principle

The understanding that there are systematic and predictable relationships between sounds and letters.



these skills open the gate for reading. – Wiley Blenkins

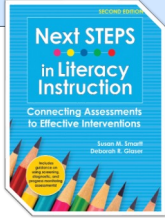
Reading Rockets: What is the Alphabetic Principle? www.popeg.ca @popegbc @POPEYEC POPEY

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Phonics

"Phonics is the linchpin, embracing elements of print to represent oral language within a highly dependable, systematic structure."

- Smartt & Glaser, 2023, p. 83



Phonics refers to knowledge of letter sounds and the ability to apply that knowledge in decoding unfamiliar printed words.

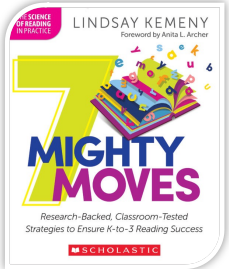
Smartt & Glaser, 2023 | www.popegc.ca | @popegc | @POPEYC | POPEY

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Phonics: Instruction

Keep in mind:


- Systematic: Move from simple to complex
 - *** Following a scope and sequence
- Explicit: "Today I want to teach you..."
- Keep students engaged by:
 - Inviting student responses
 - Have students come to the board to find a word, highlight a phonics skill in a word



7MightyMoves - Kemeny, 2023 | www.popegc.ca | @popegc | @POPEYC | POPEY

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Phonics Instruction



HEAR IT • phonemic awareness

TEACH IT • name and teach new skill/sound

DECODE IT • decode words with target skill

ENCODE IT • spell words with target skill

READ IT • read words, sentences and decodable passages

The last two steps should be approximately 50% of your lesson time. Blevins states "students progress at a much faster rate in phonics when the bulk of instructional time is spent on applying the skill to authentic reading and writing experiences" (2017).

A Fresh Look at Phonics - Blevins, 2023 | www.popegc.ca | @popegc | @POPEYC | POPEY

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Ideas for Instructional Strategies:

- Understand "the code" yourself
- Consider using a Systematic and Explicit phonics program
- White boards will be your best friend!
- Keep lessons lively (Perky Pace), and stick to suggested times
- Don't forget to unpack word meaning
- Try multi sensory methods
- Use Elkonin (sound) boxes to support encoding

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A Phonics Centre Activity - Spin It

Why Beavis - Asking Gooding to Phonics Lessons, 2023

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Living Words - Make a Word


"With the help from some awesome volunteers, we now have a set of "letter vests" in our classroom! The students wear these vests to make sight words (words that go on the word wall). They really enjoy "scrambling up" and asking another child to "unscramble" them to make the sight word correct again." (Mrs. Haxhiq)

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Word Chains

Teacher Language	Skill
(Begin with mat.) Change mat to sat.	encoding
Change the S to an F. Now tell me what word you have?	decoding
Change fat to fit.	encoding
Change the F to an S. What word is that?	decoding
What letter do you need to change sit to lit?	encoding
Now add an S to the beginning of lit. What word do you get?	decoding

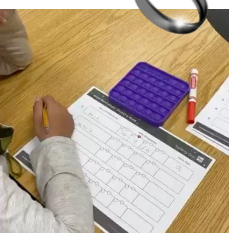


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Sources of Insight


- Screening:**
 - Letter Naming Fluency (LNF) - Kindergarten & 1st Grade
 - Though not a direct phonics skill, it is a strong predictor of early reading success.
 - Nonsense Word Fluency (NWF) - Mid-K to 2nd Grade
 - Assesses knowledge of letter-sound correspondences and blending skills.
 - Two scoring types:
 - Correct Letter Sounds (CLS) and Whole Words Read (WWR)
 - Word Reading Fluency (WRF) - 1st to 3rd Grade
 - Measures a student's ability to read real words accurately and fluently within one minute.
 - Assesses automaticity in recognizing common phonics patterns.
- Word mapping** - reveals a child's phonics skills by assessing their ability to segment sounds, match them to letters, blend them into words, and spell accurately.



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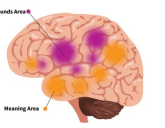
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How the Brain Learns Spoken Language




The Sounds Area

As babies hear a language, their brains track sound patterns and store the most common ones on the left side (Kuhl, 2011, 2015).



The Meaning Area

After coding sounds, babies start learning words. Their meanings are stored on the left side of the brain, near the sound area.




Listening

As we hear language, the left side of the brain processes sounds and meaning.

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Skilled Reading

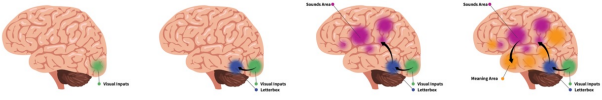


Skilled readers use the same left-brain areas as listening does.
(Dehaene, 2013b)

Evidence for a New Era of Student Testimonials
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The Reading Brain



Visual Input	Letterbox	Sounds Area	Meaning Area
Reading begins as a visual input.	When the brain sees a letter that represents a sound, the letter box is activated.	Next, the "sounds area" of the brain is activated.	Students then use their auditory mental dictionaries (lexicons) to recognize the meaning of the word, and the "meaning area" of the brain is activated.

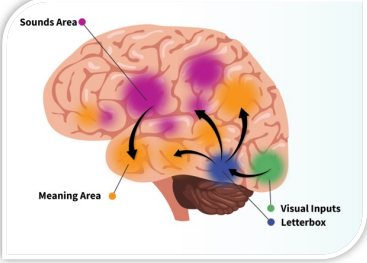
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Fluent Reading: A Second Pathway Is Formed

With practice sounding out words, the brain develops a second pathway directly from the letterbox to the meaning area.

Fluent readers process sounds and meaning in parallel.



Evidence for a New Era of Student Testimonials
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The role of Orthographic Mapping - "Sight Words"

The process of storing a word permanently in memory for instant retrieval is called **orthographic mapping**.

We see a printed word

Our brain uses letter-sound relationships from our knowledge of phonemes to segment and blend spoken sounds.

With multiple exposures and practice, our brains map the letter sequence to long-term memory. It becomes a sight word!

hat **bead** **said**

Phonics supports learning the letter-sound knowledge needed.

The "ai" pattern in "said" may be temporarily irregular until the pattern is taught.

The "ai" pattern in "said" is irregular. Draw children's attention to the parts of the word that is irregular.

Creating a sight word involves forming permanent connections between a word's letters, its pronunciation, and its meaning in memory.

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Word Mapping: Supporting the Cognitive Progress

Word mapping is a physical way to represent the relationship between the phonemes and graphemes.

WORD MAPPING

Say the word

Tap the word

Map the word

Graph the word

Write the word

Check for meaning

Check for context

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Decodable Text: A teaching tool to support Phonics Instruction

“Without aligned texts, readers are at risk of formulating the misguided hypothesis that reading is simply using pictures, and maybe a few letters, to infer the words. Worse yet, readers can begin to think that reading is just memorizing the text.”

©2019 The Balance & Wholeness Science of Reading for the Balanced Literacy Classroom Page 4/11

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Patterned, Leveled Text: Whole Word

Puppies get **into** lots of silly spots. 2 puppies are in the boots.

Puppies get **into** lots of silly spots. 3 puppies are in the flowers.

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Decodable Text: letter sound

Is the cap on a mat? No! It is not on the mat.

Is Zac's cap on a can? No! It is not on the can.

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Decodable Text

Grades 3 and up

Grade 2

Grade 1

Grade K

ACCOUNTABLE DECODABLE TEXT

LEVELED BOOKS* AND TOPIC LIBRARIES

TRADE BOOK READ-ALOUDS

Important to remember that students need access to a variety of texts for different instructional purposes.


Choosing and Using Decodable Texts: Practical Tips and Strategies for Enhancing Phonics Instruction - Blanton - 2021

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Why Teach Vocabulary?

- A rich vocabulary supports learning about the world, new ideas, and enjoying the beauty of language
- A rich vocabulary enhances what an individual wants to say and write




Vocabulary knowledge is strongly related to reading proficiency and tightly related to reading comprehension: primary, intermediate, high school and adults.

Bringing Words to Life - Book, Melissa Stover
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Active Processing Looks and Sounds Like...

Children are more likely to learn when they can actively engage with a word and its meaning, rather than passively receiving information from the teacher



- Discussing images related to a new word
- Discussing and exploring objects i.e. a thermometer
- Using movement – demonstrating migration by walking from one side of the room to the other
- Thinking of real-life examples – a time when you felt exuberant
- Discussing multiple meanings of a word – season (your food), season (winter, spring)
- Thinking about/noticing meaningful parts of words (morphology) – tricycle, trangle, triped
- Using new vocabulary in writing

A Teacher's Guide to Vocabulary Development Across the Day Wright, 2021
www.popeyc.ca @POPEYC POPEY

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How do we Learn New Words?

When we engage in conversation

What can this look like in the classroom?


- Regularly and intentionally using sophisticated language throughout the day for students of all ages
- The more interesting words we use around students the more words they will pick up and use themselves

A Teacher's Guide to Vocabulary Development Across the Day Wright, 2021
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What it Means to Really Know a Word...

- I can share an informal explanation
- I can use a synonym or antonym
- I can give categorical information
- I can recognize nuances between similar words
- I can recognize word parts (morphological understanding)
- I can connect to personal experience
- I can recognize multiple meanings – bark/bark




A Teachers' Guide to Vocabulary Development Across the Day, Wright, 2021

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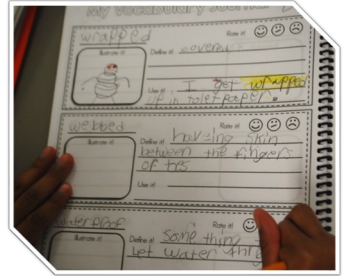
Effective Strategies: Frayer Model

What does it feel like: 1. ice cube 2. snow 3. winter day	The word in a sentence: Brrr! It is getting <u>cold</u> .
<div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; padding: 2px;">c</div> <div style="border: 1px solid black; padding: 2px;">o</div> <div style="border: 1px solid black; padding: 2px;">l</div> <div style="border: 1px solid black; padding: 2px;">d</div> </div>	
Write three synonyms: 1. freezing 2. chilly 3. icy	Draw a picture of the word: 

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Practical Tips and Activities



- Word of the Day.
- Vocabulary Journals.
- Interactive games (e.g., vocabulary bingo, word associations).

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Into the classroom...

ReadWorks Article-A-Day™
Build background, vocabulary and fluency with a focused, 5-minute lesson.

To inspire
**CONTENT AREA
READING**

Build Background
Knowledge
&
Vocabulary

Step 1: Set the purpose for the reading
Step 2: Students read or listen to an article
Step 3: The "Book of Knowledge"
Step 4: Share Knowledge!

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Fluency

Fluency refers to the development of three components: *accuracy, automaticity and prosody* and provides the bridge between word recognition and comprehension (Duke & Cartwright, 2021)

1. **Accuracy** refers to identifying or reading letter names/sounds and words correctly.
2. **Automaticity** can be considered in two levels:
 - **word level** (ability to read words quickly and effortlessly)
 - **text level** (ability to read connected text including sentences, passages and books quickly and effortlessly)
3. **Prosody** refers to a readers natural voice and expression

(Duke & Cartwright, 2021)

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Building Fluency

Accuracy: we can build accuracy through decoding as part of explicit and systematic phonics instruction.

Automaticity: reading words with automaticity is a result of orthographic mapping. (Ehri, 2014).

We can build **word level automaticity** through blending drills and Beat the Clock and other word reading activities including word mapping.

Text level automaticity is achieved through reading practice of connected text. Such practice can include repeated reading, choral reading and echo reading.

Prosody is built through teacher modeling of fluent reading during read alouds and can also develop through repeated reading and activities like readers theatre

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Ideas for instructional Strategies:

- Remember...fluency is not an isolated skill
 - subskills: phonemic awareness, sound-symbol knowledge, automaticity at letter or word level
- Small Group instruction affords specific, immediate feedback
- Model, model, model!!!
- Whole Group Reading including:
 - Read aloud, cloze reading, choral reading, echo reading
- Partner Reading
- Reader's Theatre
- Beat the Clock Timed Reading
- Repeated Reading - Fluency Triangles

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Sources of Insight

All Universal Screeners include fluency measures!

- Bridges Decoding & Comprehension - Frees mental energy for understanding.
- Signals Foundational Skill Gaps - Reveals phonics or vocabulary weaknesses.
- Predicts Future Reading Success - Strong fluency links to academic growth.
- Quick & Reliable - One-minute tests provide fast, accurate data.
- Guides Instruction - Helps target accuracy, speed, and expression.

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Skilled Comprehenders use these Strategies

The 6 Most Important Comprehension Strategies

- Switch on What You Know
- Map the Text
- Keep a Close Eye on Comprehension
- Dig Below the Surface
- Fill in the Missing Pieces
- Sum Up What You Know


We can explicitly model these comprehension skills and engage students in conversations that allow them to practice comprehension.

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Reading Comprehension

"There is no comprehension strategy powerful enough to compensate for the fact that you can't read the words" (Archer, 2001)

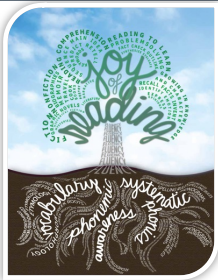


- Reading comprehension is complex and is **not a single "skill" or set of strategies**
- Instead, we can think of it as an **outcome**

Archer, 2001 | www.popecy.ca | @POPEYBC | POPEY

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THE Reading Tree



"We envision learning to read is like growing a tree. The decoding skills of phonemic awareness and systematic phonics are akin to the roots supporting the part of the tree we see, comprehension and the joy of reading."

Lee of Eureka, 2006 | www.popecy.ca | @POPEYBC | POPEY

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Sources

Books & Articles

- A Fresh Look at Phonics – Blevins, 2016
- 7 Mighty Moves – Kennedy, 2023
- A Teacher's Guide to Vocabulary Development Across the Day Wright, 2021
- Bringing Words to Life – Beck, McKeown, Kucan
- Reach All Readers – Geiger, 2024
- Next Steps in Literacy Instruction – Smart & Glosler, 2024

Digital Resources


- [The Six Traits](#)
- [Fluency with the Dots](#)
- [Read Works - Words A Day](#)
- [Source of Reading Performance Guide](#)
- [Six Shifts - Are You Teaching the Key Comprehension Strategies Students Really Need?](#)

Digital Resources: cont'd

- [Stephanie Stalder Reading Science Academy](#)
- [Marianne Wolf](#)
- [Reading Rockets: The Active View of Reading](#)
- [Reading Rockets: Models of Reading](#)
- [Beyond the Simple View of Reading](#)
- [International Dyslexia Association Ontario](#)
- [Thinking and Learning](#)
- [How We Learn To Read – Harvard Medical School](#)
- [Evidence For a New Era of Reading Instruction](#)
- [Look of English](#)
- [Word of the Day](#)
- [Thinking Routine - Word Sentence Phrase](#)

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Program for the Early Years

Thank you for your dedication and
passion!

Your hard work inspires and makes a
lasting impact!

Thank you from the POPEY team!

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