# Scaffolding Instruction Resulting in Successful Comprehension

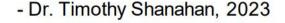
Jodi Snyder, Urban Literacy Specialist Literacy Academy - June 10, 2024



# The Charge of Adolescent Literacy, 4-12

"Our kids need to learn to read challenging literary and informational texts from the different disciplines in sophisticated ways, and they need to get used to using text for **building** extensive stores of knowledge about their social and natural worlds."







# Language & Literacy Continuum Phases of Development



Ohio's Plan to Raise Literacy Achievement



# **Our Simultaneous Challenge**

HEADED MO

### **Strengthening Tier 1**

instruction by ensuring all students have opportunity to build knowledge through common routines for reading, writing, and discussion of text in ALL content-area classes

# Providing Tier 2 & 3 supports

for students who have gaps in foundational literacy skills through a system of assessments with clear decision rules and sufficient time for intervention provided by trained specialists

Implementing MTSS in Secondary Schools 2022 RC6 003.pdf (uncg.edu)



# Learner Outcomes: Participants will be able to...

**Explain the significance of using common literacy routines** across content areas

Identify and practice common routines to use before, during, and after reading to scaffold comprehension

Consider actions and frameworks for implementing and leading common routines



# **Rigorous Texts & Struggling Readers**

Recent research indicates that students actually learn more from reading texts that are considered too difficult for **them** - in other words, those with more than a handful of words and concepts a student doesn't understand. What struggling students need is guidance from a teacher in how to make sense of texts designed for kids at their respective grade levels - the kinds of texts those kids may otherwise see only on standardized texts, when they have to grapple with them on their own.

State Support Team

## **Shifting Expectations & Practices**

When students who started the year behind grade level were given more grade-appropriate assignments, stronger instruction, deeper engagement, and higher expectations, the gap between these students and their higher achieving peers began to narrow substantially.



TNTP The Opportunity Myth



### Success rates on grade-level work were similar...

56%

Success rates on all grade-level assignments from classrooms with mostly students of color

65%

Success rates on all grade-level assignments from classrooms with mostly white students



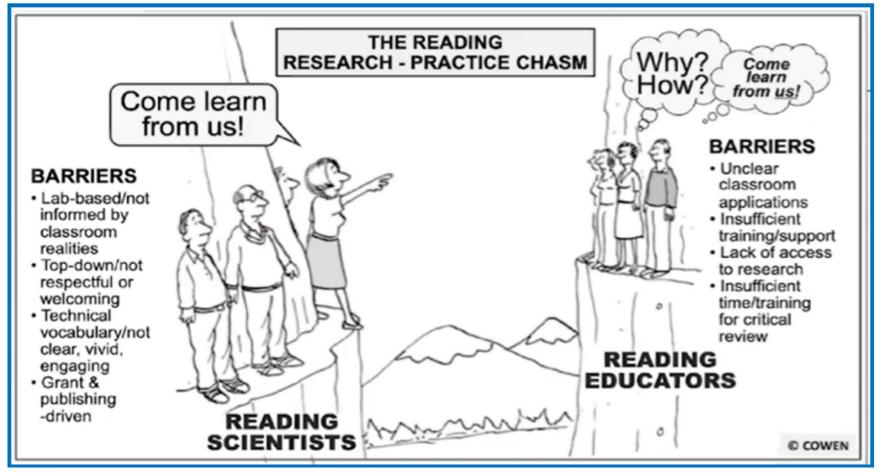
# ...but 4 out of 10 classrooms with a majority of students of color never received a single grade-level assignment.

38%

Percent of classrooms that had no grade-level assignments in classrooms with mostly students of color 12%

Percent of classrooms that had no grade-level assignments in classrooms with mostly white students





# **Shifting from Leveled Texts**

The new standards demand regular practice with grade-appropriate texts regardless of the reading level of the student. The idea is that teacher support and explanation, not text difficulty, is what should be differentiated.



"Reading and Writing instruction in America's Schools" - Fordham Report, 2018



## **Tier 1: Evidence-Based Practices**

- 1 Explicit vocabulary instruction
- 2 Explicit comprehension strategy instruction
- Extended discussion of text
- 4 Motivation and engagement in literacy
- 5 Explicit writing instruction about reading

IES Practice Guide Improving Adolescent Literacy, 2008; IES Practice Guide Providing Reading Interventions, 2022; Writing to Read, 2010

# **Building Literacy Across Content Areas**

Work with a variety of texts

Use extended writing to build language and knowledge

Talk about text to build language and knowledge

Study a small set of high-utility vocabulary words needed to master content

Use school-wide protocols to support reading, writing, speaking and listening



# From Strategies To Routines

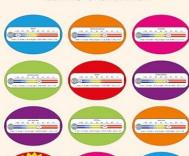
What makes them routines, versus mere strategies, is that they get used over and **over again** in the classroom so that they become part of the fabric of classroom culture. The routines become the ways in which students go about the process of learning. Routines are patterns of action that can be integrated and used in a variety of contexts. - Thinking Pathways



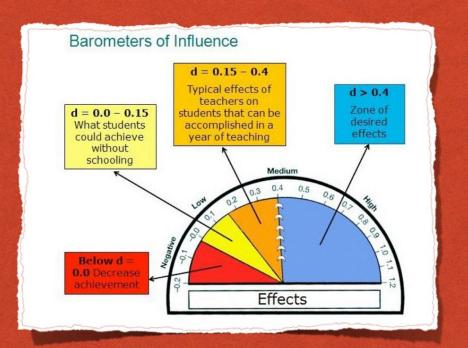


#### VISIBLE LEARNING: The Sequel

A SYNTHESIS OF OVER 2,100 META-ANALYSES RELATING TO ACHIEVEMENT



JOHN HATTIE



## HATTIE'S BAROMETER

## **Research Supporting Use of Complex Text**

Numerous studies over the past few decades have demonstrated that it is most helpful to teach comprehension strategies, text structures, and word-level strategies while students are engaging in reading challenging, content-rich texts. Such skills don't stick when practiced for their own sake. Rather, students learn those skills best when the have compelling reasons such as the desire to make sense of interesting materials.

(Guthrie & Wigfield, 1997; Vacca & Vacca, 1998; Alvermann, 2002; Wilhelm & Smith, 2002; Willingham, 2007; Lupo, Strong & Smith, 2018)



## **Consistent Reading Routines**

### **Before Reading**

Build word and world knowledge

Establish a purpose and goals for reading

Make predictions

**Examine text structure** 

### **During Reading**

Promote
self-regulation
(self-question, reread,
monitor and stay
focused)

Provide academic language support

**Annotate the text** 

### **After Reading**

Promote reflection of new knowledge (summarize, question, discuss and respond to text)

Promote application of new knowledge (formulate and defend stances)



# 3 Tiers of Vocabulary

# Common Tier 1

- Basic words
- Often used in everyday conversation

# Academic Tier 2

- More complex
- Frequently occurring words in academic settings

# Content Specific Tier 3

 Highly specialized words that are related to a specific discipline or text



## **Characteristics of Effective Vocabulary Instruction**

Focus on terms that have a high probability of enhancing academic success, Tiers II & III Students should utilize academic words in writing and classroom discussions

(Marzano, 2001)

Gradual shaping of word meanings through multiple exposures

Move beyond definitions with explanations and descriptions using everyday language

Students represent vocabulary terms in linguistic and non-linguistic ways

Teach word parts to enhance spelling and understanding of multi-syllabic words



### **Examine Text Structure**

# Teaching Reading Sourcebook literature print proved decoding

#### Alaska Adventure

Take Mays and his dad spent two weeks visiting Alaska. They flew to Anchorage and then took a train south to a lodge in Seward, a small harbor town surrounded by the Kenai mountain range. From there they took day trips around the area to see and experience the sights. Jake found it all so enticing that he never wanted to leave.

Every day brought a new adventure. They traveled by ferry and sail-boat on the marine highways through straits and inlets. They paddled sea kayaks up narrow fjords lined with ice cliffs. They saw whales, otters, puffins, sea lions, and eagles. They spent a day on a fishing schooner catching salmon for dinner. Jake snapped pictures of every new vista.

"Mom is not going to believe how awesome the scenery is!" he said. "Next time, we have to coordinate the schedule so that she can come with us."

On the flight home, they pored over the map, already planning the return trip. Jake thought it would be exciting to do some backpacking on Mount McKinley, the tallest peak in North America.

"Wouldn't it be fun to explore the state's interior? We could travel north from Anchorage to visit Denali National Park. I heard that the fishing is first class, and there is plenty of wildlife to see."

"That's true," said Dad. "Still, it is hard to resist the idea of retracing the route we just traveled. Now that we're expert kayakers, we should paddle around the capes and coves and lagoons of the Alaska Peninsula." Dad pointed at the chain of volcanic islands separating the Pacific Ocean from the Bering Sea. "The Aleutian archipelago stretches for more than a thousand miles. We could spend a lifetime on

"Well, that settles it," said Jake. "We just need to come back and stay longer."

the water just exploring this part of the Ring of Fire."

"You've got that right," said Dad.

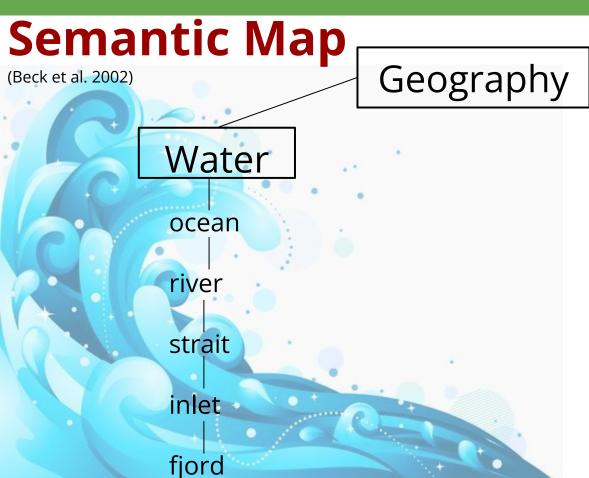
- > vista
- > coordinate
- > interior
- > route

Explicit Vocabulary Instruction .67

### **Build word knowledge**

- Our word is **coordinate**. What is the word? How many syllables?
- When you **coordinate** a plan, you match it up with someone else's.
- The team **coordinates** to meet at the park at the same time. Everyone's plans match up.
- We must **coordinate** our schedules so everyone gets picked up from school on time. We must match up our schedules.
- If no one tells you where or when the team is meeting. Is that a **coordinated** or not a **coordinated** plan?
- Should we **coordinate** or not **coordinate** our plans in order to do everything we want to do on vacation?
- Think of two more times when you need to **coordinate** with someone, then tell your neighbor.
- What are two more examples of when you need to **coordinate**?





## Landforms

mountain

archipelago

volcano

peninsula

island

State Support Team

### **Examine Text Structure**

# reading phonics fluency westering Teaching Reading Sourcebook strategies international literature print prosedy decoding

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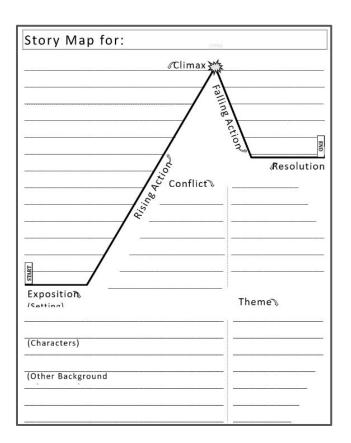
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Graphic Organizers

# Teaching Reading Sourcebook

# Paragraph Shrinking (Fuchs et al, 2001)

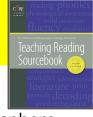
 Identify who or what (person, animal, place, or thing) a paragraph is mostly about.

2. Identify the **most important information** about the who or what.

3. **Shrink** all the information into one **main-idea statement** of 10 words or less.



#### The Greenhouse Effect



The greenhouse effect is the rise in temperature that Earth experiences because certain gases in the atmosphere trap energy from the sun that is reflected off Earth-energy that would otherwise escape back into outer space. Scientist now believe that greenhouse effect is making Earth warmer, enough to drastically change the climate. An increase in global temperature of just one degree can impact the rainfall patterns and sea levels. The rise in temperature can cause problems for plants, wildlife, and humans.

Water vapor, carbon dioxide ( $CO_2$ ), methane ( $CH_4$ ), nitrous oxide ( $N_2$ 0), chlorofluorocarbons ( $CFC_5$ ), ozone ( $N_3$ 0), perfluorocarbons ( $N_2$ 0), and hydrofluorocarbons ( $N_3$ 0), are the "greenhouse gases" in our atmosphere. These types of gases behave much like the glass panes of a greenhouse. The glass lets in light but prevents heat from escaping, causing the greenhouse to heat up, much like the inside of a car parked in the sun on a hot day.

People are contributing to Earth's warming by increasing the  $CO_2$  in the atmosphere. Trees, like all living things, are made mostly of carbon. When people burn forests, the caron in trees is transformed into  $CO_2$ . trees, like other plants, use photosynthesis to absorb carbon dioxide and release oxygen. When people cut down forests, less carbon dioxide is converted into oxygen. People also increase  $CO_2$  in the air by burning "fossil fuels". These fuels include gasoline used in cars, SUVs, and trucks and fuels like coal and natural gas used by power plants to create electricity. Whenever fossil fuels are burned,  $CO_2$  is released into the air.

Who or What the greenhouse effect

Most Important Information
It is making Earth warmer and changing the climate, which could cause problems for living things.

Main-Idea Statement
The greenhouse effect is making Earth warmer; changing the climate.

Summarizing .63

The greenhouse effect is the rise in temperature that Earth experiences because certain gases in the atmosphere trap energy from the sun that is reflected off Earth's-energy that would otherwise escape back into outer space. Scientist now believe that the greenhouse effect is making Earth warmer, enough to drastically change the climate. An increase in global temperature of just one degree can impact the rainfall patterns and sea levels. The rise in temperature can cause problems for plants, wildlife, and humans.

Who or What

**Most Important Information** 

Main-Idea Statement

Water vapor, carbon dioxide  $(CO_2)$ , methane  $(CH_4)$ , nitrous oxide (N<sub>2</sub>0), chlorofluorocarbons (CFC<sub>s</sub>), ozone (0<sub>3</sub>), perfluorocarbons (PFC<sub>5</sub>), and hydrofluorocarbons (HFC<sub>s</sub>) are the "greenhouse gases" in our atmosphere. These types of gases behave much like the glass panes of a greenhouse. The glass lets in light but prevents heat from escaping, causing the greenhouse to heat up, much like the inside of a car parked in the sun on a hot day.

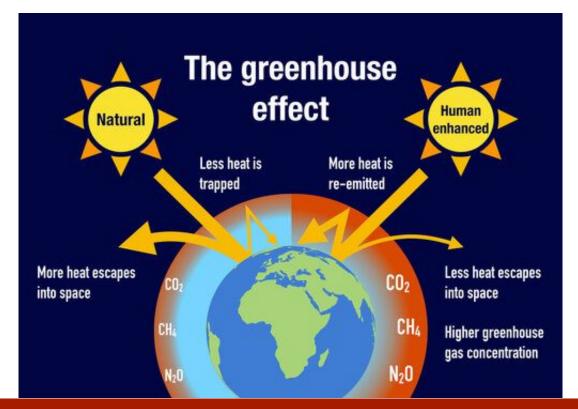
Who or What

**Most Important Information** 

Main-Idea Statement

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# The Role of Graphics





# Unscramble the Fragment and Fix-Up into a Sentence:

write something don't they about about know can't one

One can't write about something they don't know about.



# **Unscramble the Fragment and Fix-Up into a Sentence:**

escaping atmosphere heat gases greenhouse Earth's prevent from

Greenhouse gases prevent heat from escaping Earth's atmosphere.



# **Sentence Expansion**

(Hochman & Wexler, 2017)

## Pyramids were built.

Why? \_ \_ \_ \_ \_ \_ \_

## **Expanded Sentence**



# **Sentence Expansion**

(Hochman & Wexler, 2017)

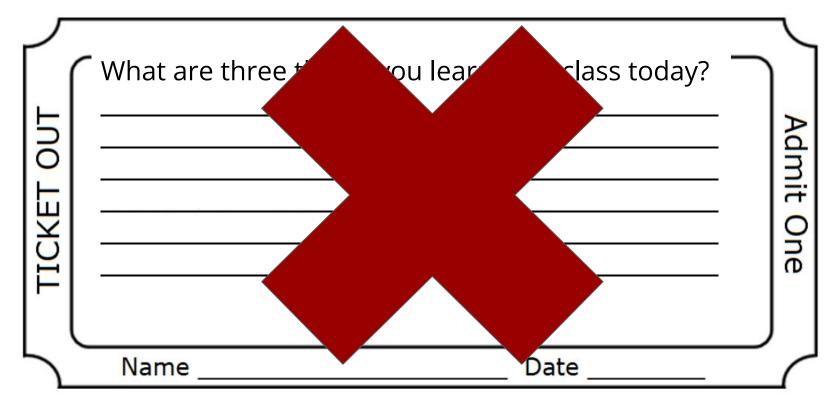
Pyramids were built.

When? ancient times

Why? protect body of deceased pharaoh

**Expanded Sentence** 







# **Using Conjunctions to Extend Responses**

Writing about Reading .77

**Because** - Explains why something is true

**But** - Indicates a shift or change in direction

**So** - Indicates what happens as a result of something else - cause & effect



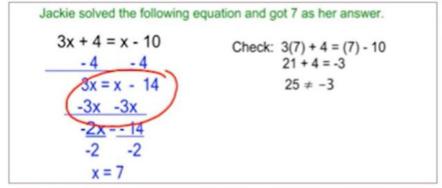
## Because, But, So

Qualitative observations are similar to quantitative observations **because** they are both made using the five senses.

Qualitative observations are similar to quantitative observations **but** <u>only quantitative uses numbers</u>.

Qualitative observations are similar to quantitative observations **so** both are used by scientists.

## Because, But, So



Jackie's answer was incorrect because she moved 3x over, making the left side 0.

Jackie's answer was incorrect, but she correctly moved 4 over and divided by -2.

Jackie's answer was incorrect, so her check didn't work.



# Because, But, So

# Math Example:

| Fractions and decimals are challenging |
|--|
| because                                |
| Fractions and decimals are challenging |
| but                                    |
| Fractions and decimals are challenging |
| so                                     |



# Because, But, So

| Common r | routines a | are important | because | _ |
|----------|------------|---------------|---------|---|
|          |            | •             |         |   |

Common routines are important **but** \_\_\_\_\_

Common routines are important **so** \_\_\_\_\_\_



## **Covert Mental Activities of Successful Readers**











Monitoring
one's own
comprehension
and re-reading
if the text did
not make
sense

**Directing** the pace and purpose of one's reading

Making inferences within and between sentences

Visualizing
an organized
mental
structure of
information

Predicting & Integrating ideas in the text with one's own background knowledge

How We Learn - Ask the Cognitive Scientist, Dr. Willingham (ufl.edu)



# Concluding Thought Comprehension is the *OUTCOME*



Reading comprehension is not a single entity that can be explained by a unified cognitive model. Instead, it is the orchestrated product of linguistic and cognitive processes operating on text and interacting with background knowledge, features of text, and the purposes and goals of the reading situation.

(Castles et al., 2018)

Comprehension skills or strategies, is there a difference and does it matter? (Shanahan, 2018)

# **Key Ideas**

- Common before, during, and after reading routines scaffold student comprehension.
- School-wide protocols support collective teacher efficacy.
- Covert mental activities of successful readers include monitoring, directing the pace and purpose of reading, making inferences, visualizing, and integrating ideas in the text with one's background knowledge.

# Reflection Questions & Commitments

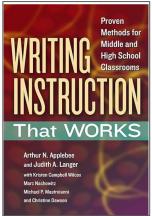
How will you use this learning to increase outcomes for ALL students?

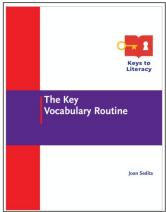
What is the next sensible and assertive action step you can take right now to support this work?

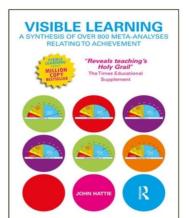


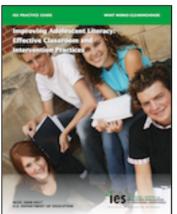
## Resources

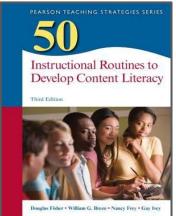


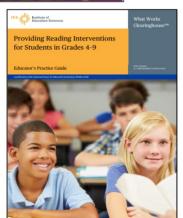


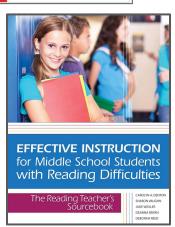
















jodi.snyder@escneo.org

