Strategies to Increase Content-Area Literacy Achievement in Co-Taught Middle School Classrooms

Council for Exceptional Children
Annual Conference Indianapolis, IN
January 31, 2019



Gist Pointers

Identify who or what the section is mostly about.

Who or what is mentioned frequently?

Count pronouns!

Are any words or phrases emphasized?

bolded, italicized, <u>underlined,</u> highlighted, large font, different color

Do the text features give me clues?

headings, pictures with captions, graphs, charts, tables, maps

Identify the most important information about the who or what.

Are any ideas repeated?

Are any phrases or sentences emphasized?

bolded, italicized, <u>underlined,</u> highlighted, large font, different color

Do the text features give me clues?

headings, pictures with captions, graphs, charts, tables, maps

Develop a Gist Statement that is about 10 words.

Is the Gist Statement paraphrased?

written in your own words & not copied from the text

Is the Gist Statement about 10 words?

between 8 and 13 words

Is the Gist Statement written in one complete sentence? one complete statement with capitalization at the beginning and punctuation at the end

Gist	Log
JIJL	LUS



Name: ______

Gist Steps

- 1. Identify **who** or **what** the section is mostly about.
- 2. Identify the most important information about the who or what.
- 3. Develop a Gist Statement that is **about** 10 words.

Gist Rubric

Date:

- 1. Does my Gist Statement identify who/what the passage was about?
- 2. Does my Gist Statement identify only the most important information about the who/what?
- 3. Is my Gist Statement paraphrased, about 10 words, and written in one complete sentence?

Purpose Question

How do people study human migration and what have scientists hypothesized?

Section 1				
Who/What	Most Important Informat	ion		
	•			
Gist Sta	atement		Score	
		1	2	3

	Section 2			
Who/What	Most Important Informat	ion		
	_			
	•			
Gist Sta	atement		Score	
Gist statement		_		
		1	2	3

	Section 3			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	
		1	2	3
	Section 4			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	
		1	2	3
	Section 5			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	Г
		1	2	3
	Text Summary			

CALI Text Samples

Text Sample 1

Get the Gist

How does erosion happen?

By National Geographic, adapted by Newsela staff on 10.03.17, text section presented for demonstration Word Count **682**Level **830**L



These rock formations, in Bryce Canyon National Park, Utah, are called hoodoos. Although the soft sandstone was carved away by the erosion of wind, water and ice, tall hoodoos stand as the result of sturdy limestone caps protecting the sandstone underneath. Photo by: Luca Galuzzi - www.galuzzi.it from Wikipedia.

Erosion occurs when the Earth wears away. It can be caused by water, wind or ice. A similar process is called weathering. It breaks down or weakens rock, or turns it into tiny fragments. No rock is hard enough to resist it. Weathering and erosion shaped the peaks of the Himalaya mountains in Asia and the rock towers of Bryce Canyon in Utah.

Erosion moves bits of rock or soil from one place to another. Most erosion is caused by water, wind, or ice usually in the form of a glacier. If water is muddy, it is a sign that erosion is taking place. It means that bits of rock and soil are floating in the water. This material is called sediment.

When wind or water slows down or ice melts, sediment is left behind in a new place. As sediment builds up, it creates fertile land.

Erosion by Water

Moving water is the major cause of erosion. Rain carries away bits of soil and washes away pieces of rock. Rushing streams and rivers wear away their banks, and create larger valleys. Over 5 million years, the Colorado River cut deep into the land, eventually forming the Grand Canyon. The Grand Canyon is more than 1 mile deep and as much as 18 miles wide.

Erosion by water changes the shape of coastlines. Waves crash against shores. They pound rocks into pebbles and turn the pebbles to sand. Water sometimes washes sand away from beaches. This moves the coastline farther inland.

The ocean waves also erode seaside cliffs. They sometimes bore holes that form caves.

Text Sample 2 Get the Gist in Action

Chickens Tell Tale of Human Migration Across Pacific

By Alan Cooper and Vicki Thomson, The Conversation, adapted by Newsela staff, text segment for demonstration

If you visit Hawaii, you will probably run into a chicken. They are everywhere. But these birds are wild, unlike the chickens found in farmyards and garden coops. Chickens are not native to the Hawaiian Islands, though. How did they get there?

Why did the chicken cross the Pacific?

Ancient chicken bones can help us find out. We found that chickens were brought to Hawaii by canoe as part of the early human migration across the Pacific Ocean.

The spread of human beings across the Pacific was not easy. It started in Southeast Asia, probably in Taiwan, the Philippines or Indonesia. Humans then moved across the huge ocean, as far as Easter Island. It was one of the greatest acts of ocean travel in human history.

Although it is one of the more recent major human migrations, we do not know very much about it. For example, we do not know if these voyagers reached South America.

The first stage in this migration was the establishment of Western Polynesia. It took place about 3,100 to 3,250 years ago. Polynesia includes the islands of Vanuatu, Fiji, Tonga and Samoa. Hawaii is also part of Polynesia. The colonies were established by the Lapita, generally thought to be the ancestors of the Polynesian peoples.

Text Sample 3

Sentence-Level Gist

Underground Railroad

Written by ReadWorks.org, text segment for demonstration

The Underground Railroad was not a railroad. It wasn't underground either. But it did help show thousands of black men and women the way from the slavery of the south to freedom in the north.

Before the Civil War, it was illegal to help slaves escape because slaves were considered property. However, many people thought slavery was morally wrong. They were willing to put themselves at risk to help slaves escape. The Underground Railroad was the system of men and women who hid slaves in their homes and on their farms as they made their journey to freedom. The stops along the way were called "stations," just like the stations on a railroad train. Each house told the fugitives where they would find the next friendly house. The railroad was so secret that each station along the way knew only about the house before it and the house after it. That way no one could tell on the entire system and find out the whole route of the Underground Railroad.

Gist	Log
JIJL	LUS



Name: _____

Gist Steps

- 1. Identify **who** or **what** the section is mostly about.
- 2. Identify the most important information about the who or what.
- 3. Develop a Gist Statement that is **about** 10 words.

Gist Rubric

Date:

- 1. Does my Gist Statement identify who/what the passage was about?
- 2. Does my Gist Statement identify only the most important information about the who/what?
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Purpose Question

Section 1				
Who/What	Most Important Informat	ion		
	•			
Gist Statement Score		Score		
		1	2	3

	Section	2			
Who/What		Most Important Informat	ion		
	•				
Gist Sta	atement			Score	
			1	2	3

	Section 3			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	
		1	2	3
	Section 4			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	
		1	2	3
	Section 5			
Who/What	Most Important Informa	tion		
	•			
Gist St	atement		Score	Г
		1	2	3
	Text Summary			

Sentence-Level Gist Log



Name:	Date:	content-area literacy instruction
	Purpose Question	

Section 1			
Sentence	Who/What	Most Important Information	
1			
2			
3			
4			
5			
6			
7			
8			
	Gist Statement		

Section 2		
Sentence	Who/What	Most Important Information
1		
2		
3		
4		
5		
6		
7		
8		
Gist Statement		

		Section 3
Sentence	Who/What	Most Important Information
1		
2		
3		
4		
5		
6		
7		
8		
		Gist Statement
		Section 4

	Section 4			
Sentence	Who/What	Most Important Information		
1				
2				
3				
4				
5				
6				
7				
8				
		Gist Statement		

Text Summary



Council for Exceptional Children Annual Conference Indianapolis, IN January 31, 2019

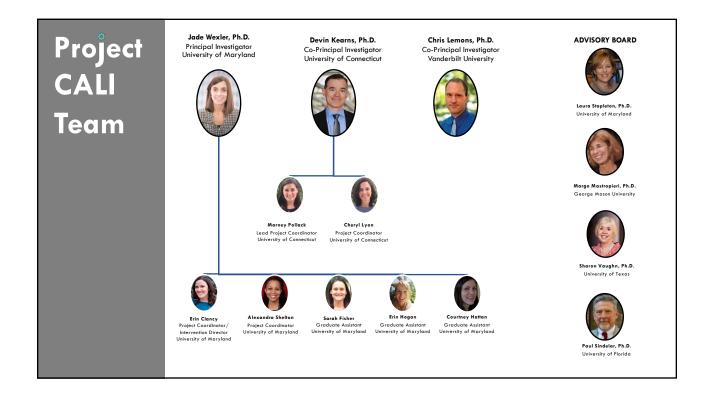


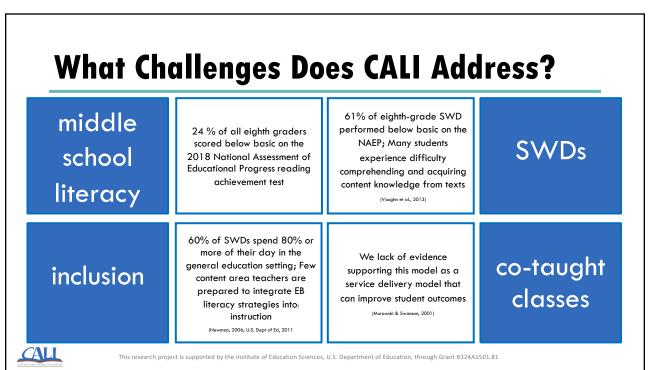


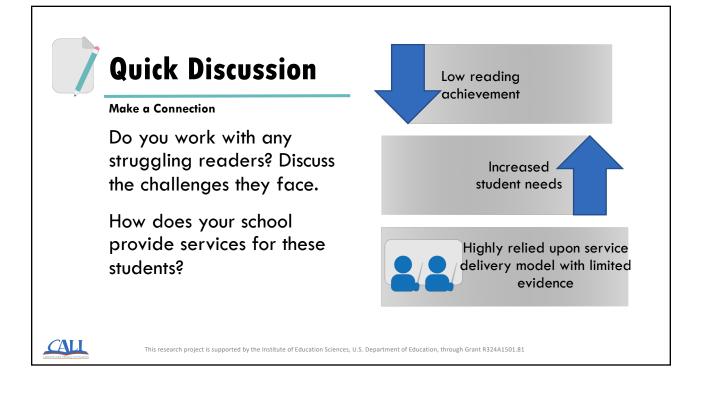
Part 1: Rationale

- Meet the research team
- Understand the rationale behind Project CALI
- Understand the structure of the Project CALI research study









What Literacy Practices Should We See?

Practices supported by data from available research studies of literacy instruction



- 1. Provide explicit vocabulary instruction
- 4. Increase student motivation and engagement in literacy learning
- 5. Make available intensive and individualized interventions for struggling readers that can be provided by trained specialists

IES (Institute of Education Sciences) is the research arm for the U.S. Department of Education



This research project is supported by the Institute of Education Sciences, U.S. Department of Education, through Grant R324A1501.81

What Co-Teaching Practices Should We See? Features of effective Clearly established Sufficient time and roles and on (e.g., Evidence suggests these responsibili^{*} ng OTRs) practices are only minimally occurring Use of stud data to differentiate Literacy instruction -emons et al., 2018 support lower instruction performing students CALL

So, What are the Goals of Project CALI?

Content-Area
Evidence-based
Literacy Practices

Can we help teachers
use these more to
increase student
achievement?

Co-teaching

Can we help teachers make it work better to increase student achievement?



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What Makes CALI Practices Different? Evidence · from expert recommendations • based on 30 years of research based published in the IES Practice Guide all middle school students Valuable · co-taught classes Data that demonstrates that end users all content-areas understand and can feasibly implement the intervention in an authentic education setting • few additional resources **Feasible** • reasonable amount of planning time · limited class time CALL

CALI Years 1-3

Year 1 Observe

What is happening in middle school co-taught content area classes?

Year 2 Develop

What can we do to improve literacy instruction in middle school co-taught content area classes?

Year 3 Test

Is Project CALI effective in improving student literacy outcomes in middle school cotaught content area classes?



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Early Findings from Year 3

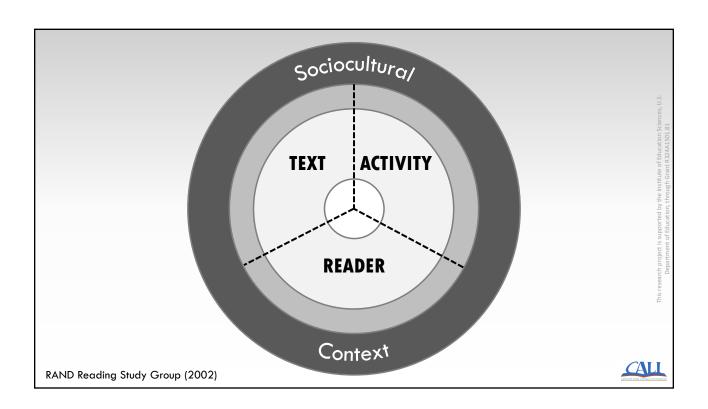
- CALI teachers significantly improved their knowledge on a researcher-developed proximal measure (i.e., main idea generation).
- CALI teachers' own ratings of their effectiveness and their ratings of their co-teachers' effectiveness significantly improved.
- Observations revealed greater change across three observations in implementation of higher value co-teaching practices (e.g., teamteaching) and appeared to show more use of those practices at observation 3 (although not significantly).
- Students with and without disabilities in CALI classes significantly improved their ability to generate main ideas from text.

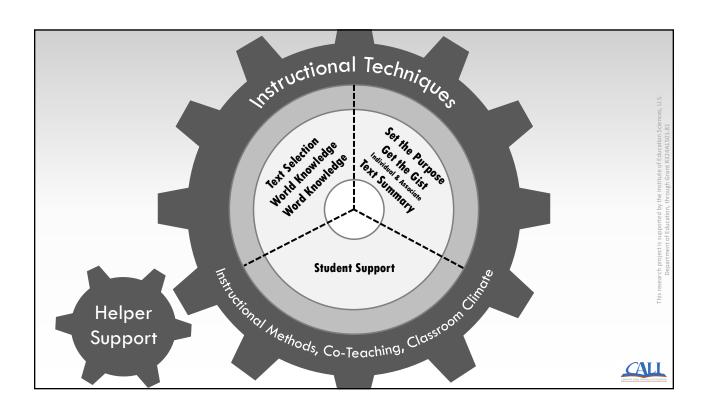


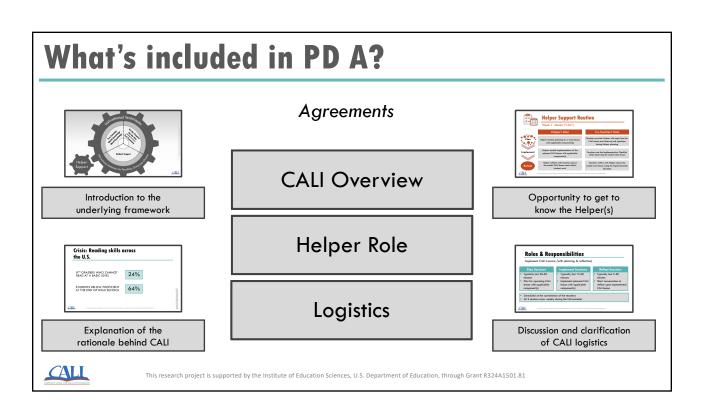
Part 2: CALI Framework

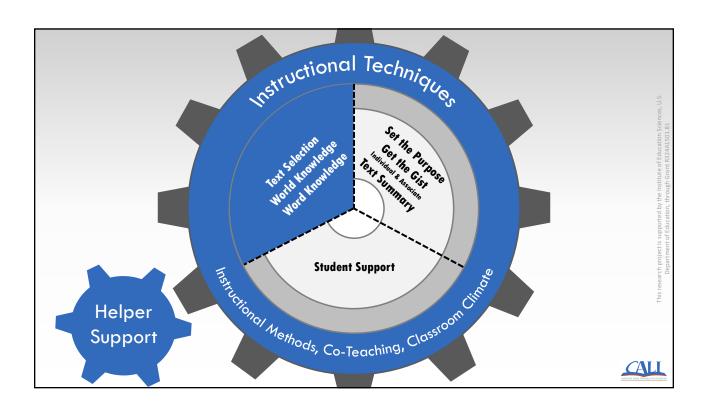
- Understand the underlying CALI framework
- Describe the essential components of each part of the CALI framework

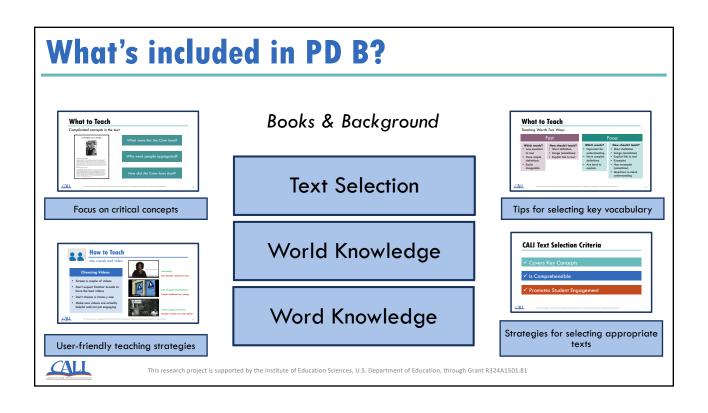














Why is text selection important?

In Middle School

CALI Solution

Secondary text is more difficult

CALI texts are accessible to students

Students don't always get needed direct instruction CALI provides teachers
with a structure
for teaching explicitly



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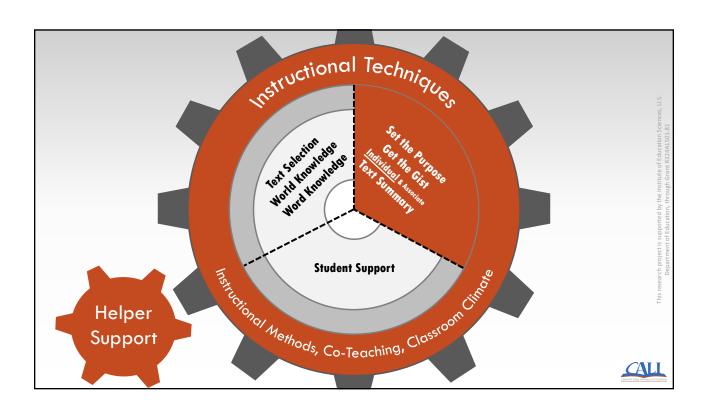
CALI Text Selection Criteria

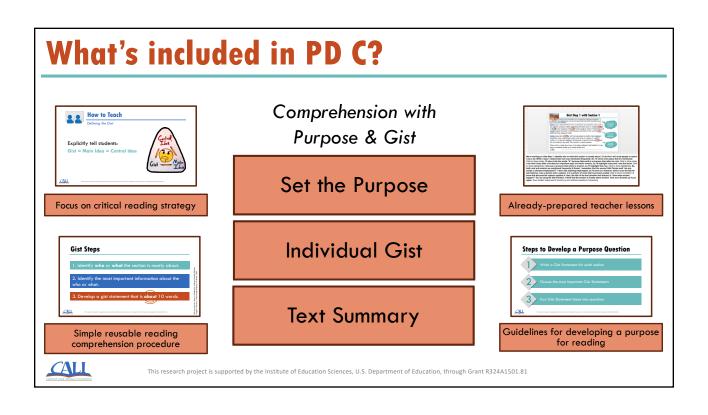
- √ Covers Key Concepts
- √ Is Comprehensible
- ✓ Promotes Student Engagement

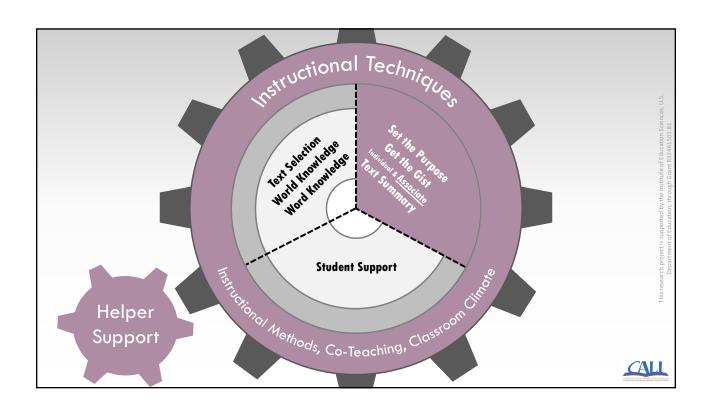


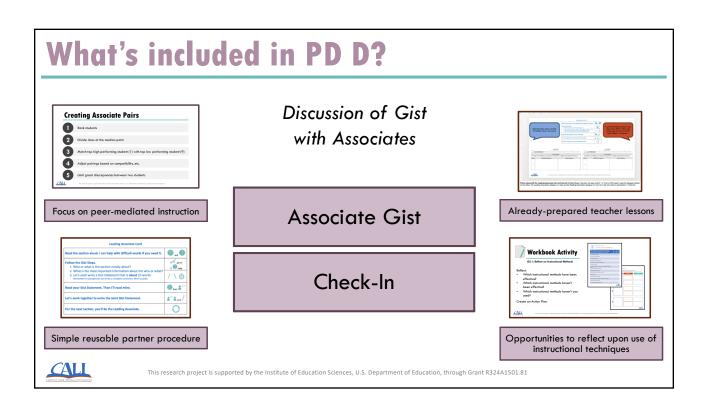
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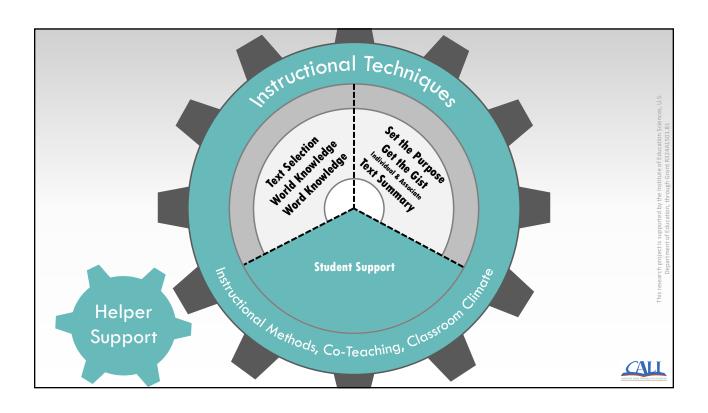
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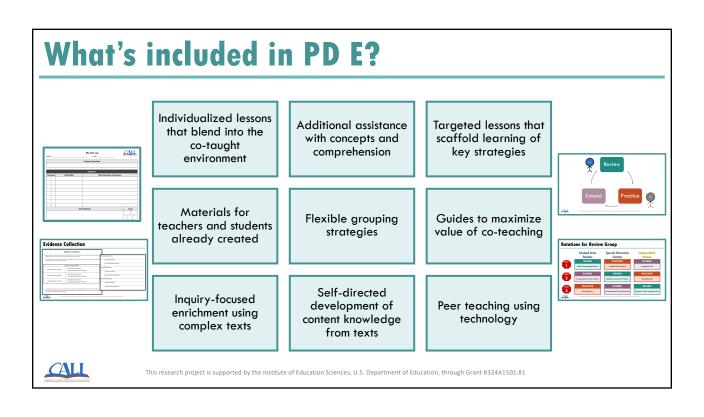


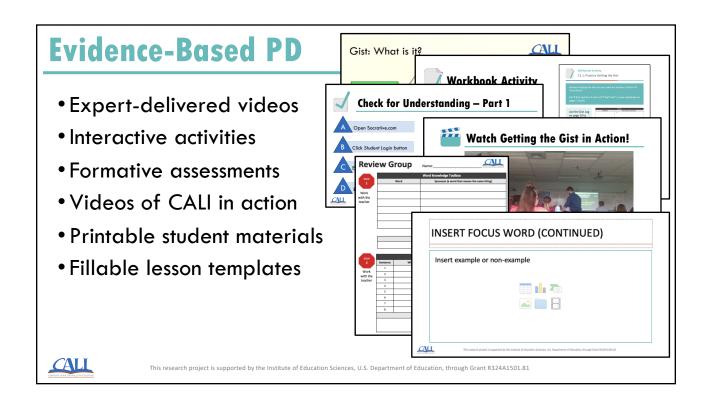


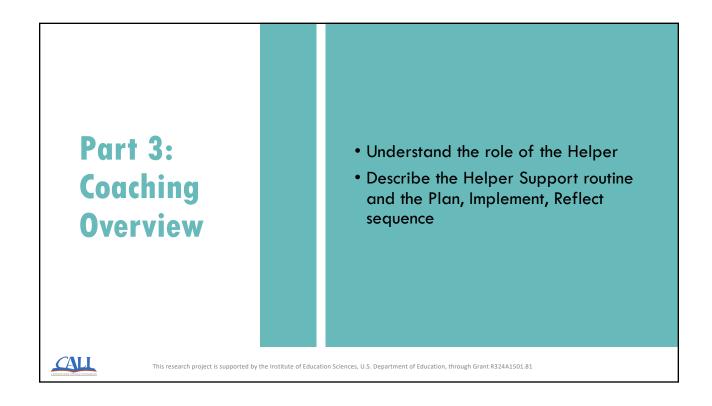










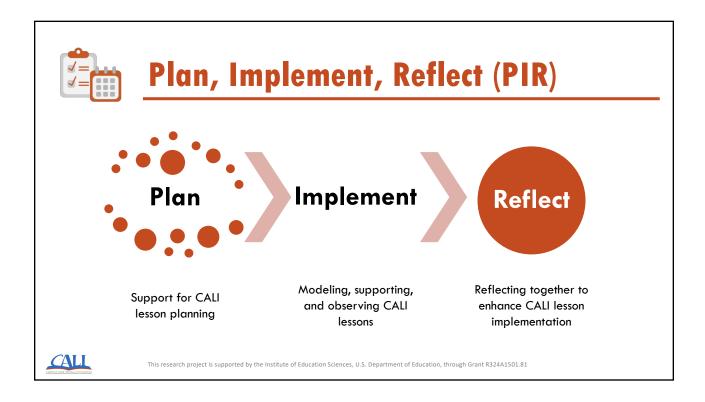


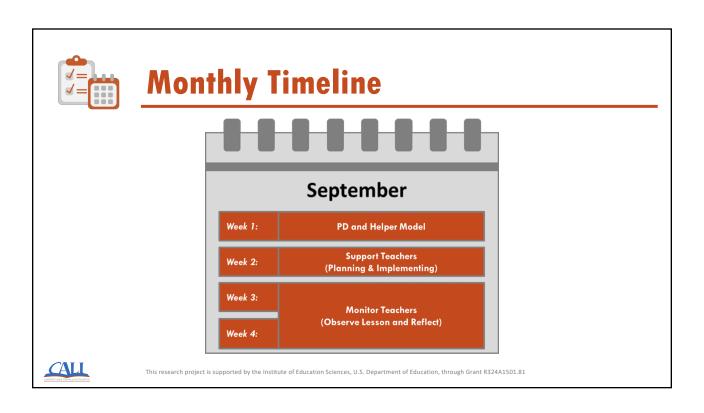


What is the Helper?

The Helper is an instructional coach who provides PD and support for co-teachers while planning for, implementing, and reflecting upon the CALI components.







Part 4: Get the Gist • Define the Gist • Understand the steps for Getting the Gist • Use the Gist Rubric for evaluation and guidance



Why is Getting the Gist important?

In Middle School

CALI Solution

As text complexity increases, students are asked to find the main idea in all content area classes and on standardized tests

Analysis and synthesis of text ideas depend on a firm grasp of the main idea

CALI gives students a routine that is transferable to any content area/text



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Defining the Gist

Explicitly tell students:

Gist = Main Idea = Central Idea





Student Materials

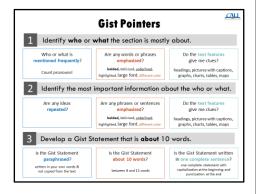
Text

CALL TEXT Sector 1 In the I ISDA, the Dicky Mountain Visid or one of the USA for one vinkdus. Yallowaters National Prok was twelving with grow scheme. Nationally were considered nationary particuts who follatell insteads and was provided to the property of the ISDA of the ISDA of ISBA of ISDA of ISBA of ISB

Gist Log



Gist Pointers





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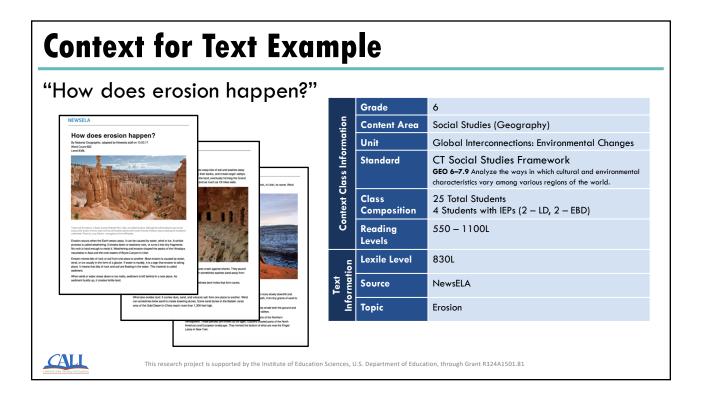
Gist Steps

- 1. Identify who or what the section is mostly about.
- 2. Identify the most important information about the who or what.
- 3. Develop a gist statement that is **about** 10 words.

CALL

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Gist steps based on those in Collaborative Strategic Reading (Klingner, Vaughn, & Schumm, 1998; Vaughn, Klingner, & Schumm, 1996)



Gist Pointers

Gist Step 1: Identify who or what the section is mostly about

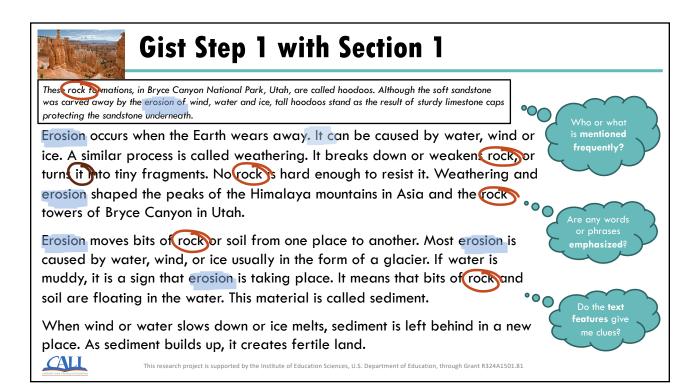
Who or what is mentioned frequently?

Are any words or phrases emphasized?

bolded, italicized, <u>underlined</u>, <u>highlighted</u>, large font, different color Do the text features give me clues?

headings, pictures with captions, graphs, charts, tables, maps





Gist Step 1 on Gist Log

Section 1				
Who/What	Most Impo	rtant Informa	ation	
erosion				
Gist Statem	ent		Score	
		1	2	3

CALL

Gist Step 2

Identify the most important information about the who or what



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Gist Pointers

Gist Step 2: Identify the most important information about the who or what

Are any ideas repeated?

Are any phrases or sentences emphasized?

bolded, italicized, <u>underlined</u>, highlighted, large font, different color Do the text features give me clues?

headings, pictures with captions, graphs, charts, tables, maps





CALL

Gist Step 2 with Section 1

These rock formations, in Bryce Canyon National Park, Utah, are called hoodoos. Although the soft sandstone was carved away by the erosion of wind, water and ice, tall hoodoos stand as the result of sturdy limestone caps protecting the sandstone underneath.

Erosion occurs when the Earth wears away. It can be caused by water, wind or ice. A similar process is called weathering. It breaks down or weakens rock, or turns it into tiny fragments. No rock is hard enough to resist it. Weathering and erosion shaped the peaks of the Himalaya mountains in Asia and the rock towers of Bryce Canyon in Utah.

Erosion moves bits of rock or soil from one place to another. Most erosion is caused by water, wind, or ice usually in the form of a glacier. If water is muddy, it is a sign that erosion is taking place. It means that bits of rock and soil are floating in the water. This material is called sediment.

When wind or water slows down or ice melts, sediment is left behind in a new place. As sediment builds up, it creates fertile land.

nic receases project is supported by the Institute of Education Sciences IIIS. Department of Education, through Grant P22/AA1501 91

Are any ideas repeated?

Are any phrases or sentences emphasized?

Do the **text features** give me clues?

Gist Step 2 on Gist Log

Section 1				
Who/What	Most Impo	rtant Inform	ation	
erosion	cause = water, windchanges landweathering = break		rock	
Gist Statem	Gist Statement		Score	
		1	2	3

CALL

Gist Step 3

Develop a Gist Statement that is about 10 words



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Gist Pointers

Gist Step 3: Develop a Gist Statement that is about 10 words

Is the Gist Statement paraphrased?

written in your own words & not copied from the text

Is the Gist Statement about 10 words?

between 8 and 13 words

Is the Gist Statement written in one complete sentence?

one complete statement with capitalization at the beginning and punctuation at the end



Gist Step 3 with Section 1

Gist Step 3: Develop a Gist Statement that is about 10 words

Section 1				
Who/What	Most Impo	rtant Inform	ation	
erosion	cause = water, windchanges landweathering = break	•	rock	causes effect
Gist Statem	Gist Statement Score			
		1	2	3

CALL

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Gist Step 3 on Gist Log

Section 1				
Who/What	Most Impo	rtant Informa	ation	
erosion	 cause = water, wind, ice changes land weathering = breaking down rock 			
Gist Statement			Score	
Erosion is caused by water, wind, or ice, and changes the land.		1	2	3

CALL

Gist Rubric

If #1 and #2 are zeros, stop scoring.

Gist Rubric

- 1. Does my Gist Statement identify who/what the passage was about?
- 2. Does my Gist Statement identify *only* the most important information about the who/what?
- 3. Is my Gist Statement paraphrased, about 10 words, and written in one complete sentence?

CALL content-area literacy instruction

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Using the Gist Rubric to Score

If #1 and #2 are zeros, stop scoring.

Gist Rubric

- 1. Does my Gist Statement identify who/what the passage was about?
- 2. Does my Gist Statement identify *only* the most important information about the who/what?
- 3. Is my Gist Statement paraphrased, about 10 words, and written in one complete sentence?

Gist Statement		Score	
Erosion is caused by water, wind, or ice, and changes how land looks.	1	2	3

CALL

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ler, Reed, Mitchell, Doyle, & Clancy, 2015

25

Wexler, Reed, Mitchell, Doyle, & Clancy, 2015



Getting the Gist in Action

Click to Play



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Quick Discussion

Make a Connection

Can you integrate this practice into your classroom?



Turn and talk with the person next to you about how you could use this practice in your class.



Part 5: Sentence-Level Gist

- Learn ways to differentiate support for students
- Describe the necessary materials
- Explicitly model the strategy and support students



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Sentence-Level Gist

Gist Steps

- 1. Identify **who** or **what** the section is mostly about.
- 2. Identify the most important information about the who or what.
- 3. Develop a Gist Statement that is **about** 10 words.

Sentence-Level Gist Steps

- 1. Identify who or what **each sentence** is mostly about. Think about pronouns!
- 2. Select **2 important words** from each sentence.
- 3. **Combine** the who/what and the important words to write a Gist Statement.





Sentence-Level Gist Log

	Section 1		
Sentence	Who/What	Most Important Information	
1			
2			
3			
4			
5			
6			
7			
8			
		Gist Statement	



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Text

The Underground Railroad was not a railroad. It wasn't underground either. But it did help show thousands of black men and women the way from the slavery of the south to freedom in the north.

Before the Civil War, it was illegal to help slaves escape because slaves were considered property. However, many people thought slavery was morally wrong. They were willing to put themselves at risk to help slaves escape. The Underground Railroad was the system of men and women who hid slaves in their homes and on their farms as they made their journey to freedom. The stops along the way were called "stations," just like the stations on a railroad train. Each house told the fugitives where they would find the next friendly house. The railroad was so secret that each station along the way knew only about the house before it and the house after it. That way no one could tell on the entire system and find out the whole route of the Underground Railroad.



Sentence-Level Gist Step 1

Identify who or what each sentence is mostly about. Think about pronouns!

The Underground Railroad was not a railroad.



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Sentence-Level Gist Step 2

Select 2 important words from each sentence.

The Underground Railroad was not a railroad.



Sentence-Level Gist Log

	Section 1			
Sentence	Who/What	Most Important Information		
1	Underground Railroad	not railroad		
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
Gist Statement				



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Sentence-Level Gist Step 1

Identify who or what **each sentence** is mostly about. Think about pronouns!

The Underground Railroad was not a railroad. It wasn't underground either. But it did help show thousands of black men and women the way from the slavery of the south to freedom in the north.

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Sentence-Level Gist Step 1

Identify who or what **each sentence** is mostly about. Think about pronouns!

	Section 1			
Sentence	Who/What	Most Important Information		
1	Underground Railroad			
2	It (Underground Railroad)			
3	It (Underground Railroad)			
4	Slaves			
5	People			
6	They (people)			
7	Underground Railroad			
8	Stops			
9	House			
10	Railroad			
11	Underground Railroad			
	Gist Statement			

Sentence-Level Gist Step 2

Select 2 important words from each sentence.

The Underground Railroad was not a railroad. It wasn't underground either. But it did help show thousands of black men and women the way from the slavery of the south to freedom in the north.

Before the Civil War, it was illegal to help slaves escape because slaves were considered property. However, many people thought slavery was morally wrong They were willing to put themselves at risk to help slaves escape. The Underground Railroad was the system of men and women who hid slaves in their homes and on their farms as they made their journey to freedom. The stops along the way were called "stations," just like the stations on a railroad train. Each house told the fugitives where they would find the next friendly house. The railroad was so secret that each station along the way knew only about the house before it and the house after it. That way no one could tell on the entire system and find out the whole route of the Underground Railroad.



Sentence-Level Gist Step 2

Select 2 important words from each sentence.

	Section 1			
Sentence	Who/What	Most Important Information		
1	Underground Railroad	not railroad		
2	It (Underground Railroad)	wasn't underground		
3	It (Underground Railroad)	• slavery → freedom		
4	Slaves	illegal escape		
5	People	slavery wrong		
6	They (people)	help escape		
7	Underground Railroad	hid slaves		
8	Stops	called stations		
9	House	find next		
10	Railroad	secret station		
11	Underground Railroad	whole route		
Gist Statement				

Sentence-Level Gist Step 3

Combine the who/what and the important words to write a Gist Statement.

	Section 1			
Sentence	Who/What	Most Important Information		
1	Underground Railroad	not railroad		
2	It (Underground Railroad)	wasn't underground		
3	It (Underground Railroad)	• slavery → freedom		
4	Slaves	• illegal escape		
5	People	slavery wrong		
6	They (people)	• help escape		
7	Underground Railroad	hid slaves		
8	Stops	called stations		
9	House	find next		
10	Railroad	secret station		
11	Underground Railroad	whole route		
Gist Statement				

The Underground Railroad helped slaves escape illegally to freedom by following a secret route.



Sentence-Level Gist Example

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