

Claims – Evidence – Reasoning Supporting Student's Writing October 2013

Outcomes/Agenda:

- Identify types of writing in your class that use C-E-R
- Examine levels of complexities for creating Claims, and for Student Responses
- Learn how to use a new C-E-R Graphic Organizer to support students by using it

<u>Claims - Evidence - Reason Writing</u>

One of the basic types of writing. Applies to:

- o Opinion/ Augmentative Writing
- o Expository Writing

CCSS W.1

CCSS W.2

Sample text types:

- Constructed responses (SBAC)
- Performance Assessments (SBAC)
- Research Reports
- Public Service Announcements

- Lab Reports
- Essays
- Debates
- Editorials
- Speeches



<u>Claims - Evidence - Reason Writing</u>

- Which of these types of writing do you use in your teaching?
- Constructed responses
- Performance Assessments
- Research Reports
- Public Service Announcements

- Lab Reports
- Essays
- Debates
- Editorials
- Speeches

The Stages of Claims - Evidence - Reason

Simple

The Stages of Claims - Evidence - Reason

1. Claim

2. Evidence

3. Reasoning

Simple

Simple

The Stages of Claims - Evidence - Reason

1. Claim
2. Evidence
• Appropriate
• Sufficient
3. Reasoning

1. Claim
2. Evidence
3. Reasoning

The Stages of Claims - Evidence - Reason

Complex

Appropriate

Reasoning

Reasoning

Claim Evidence

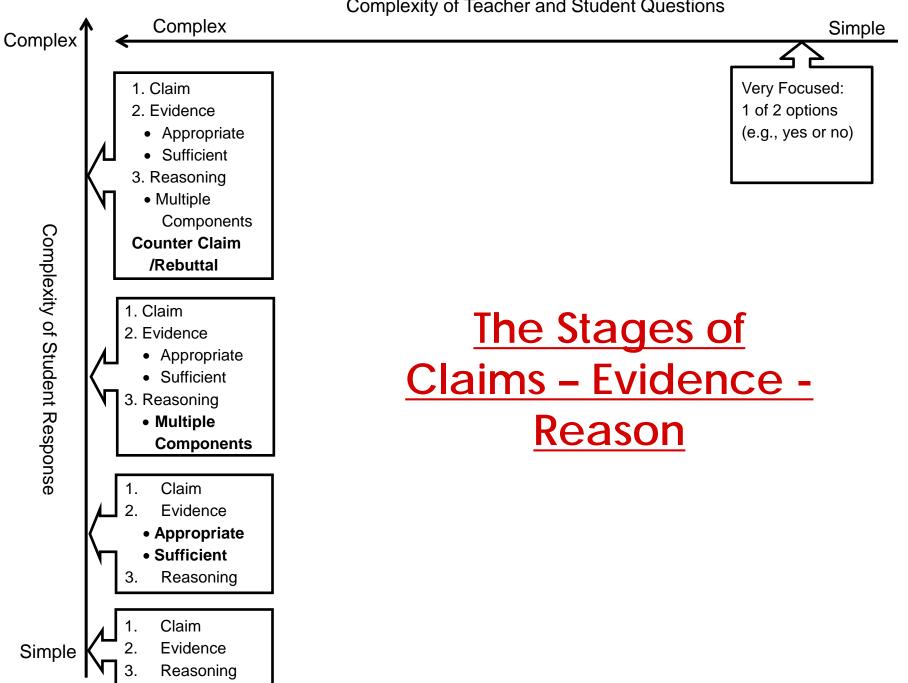
Claim
 Evidence

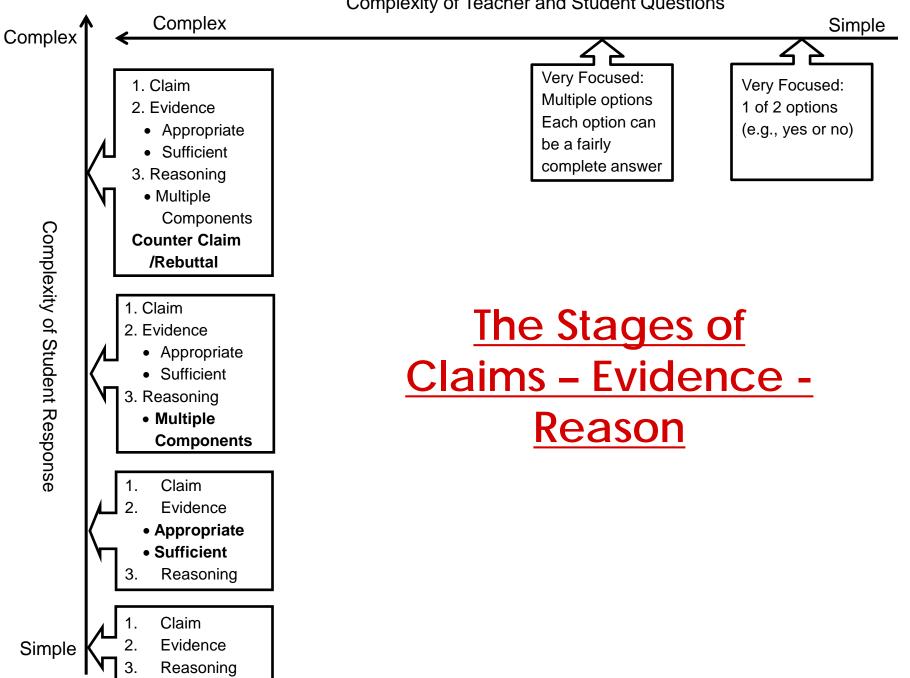
Complex

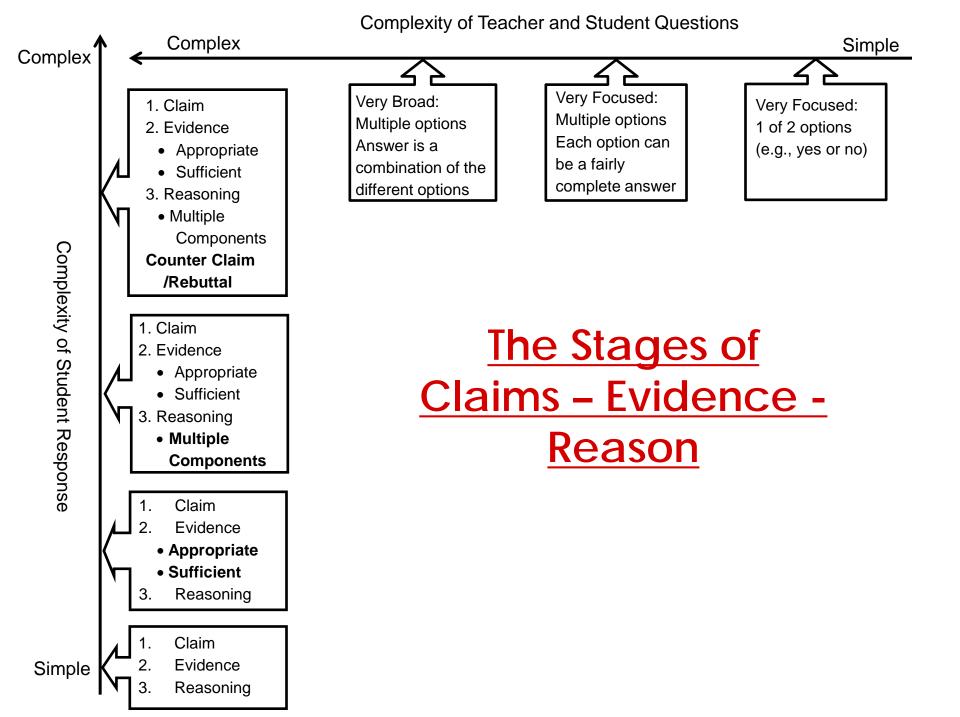
Simple

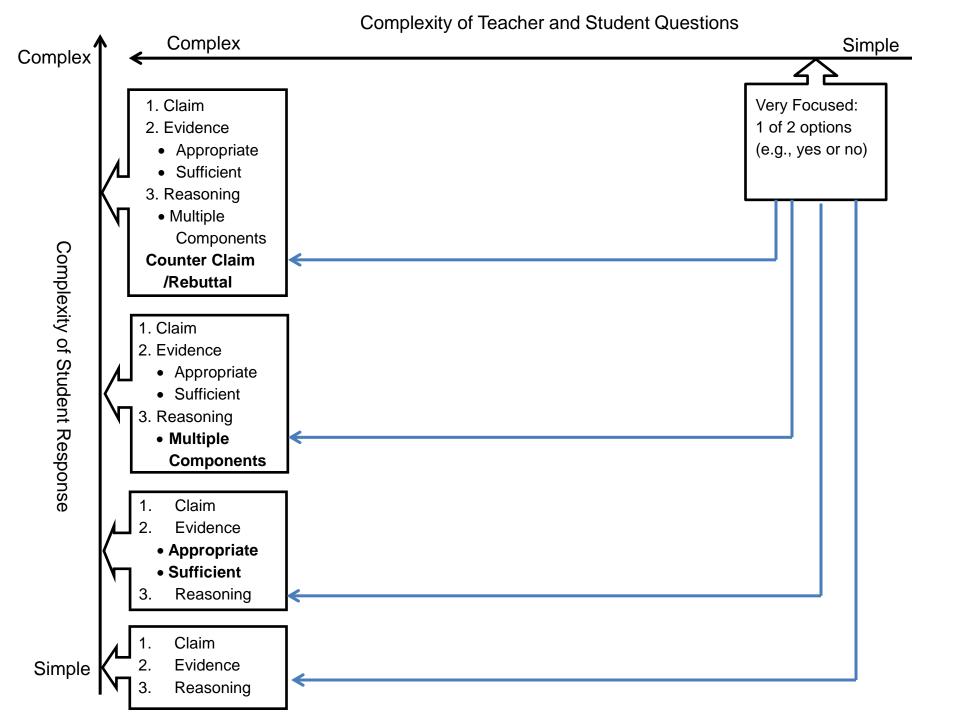
The Stages of Claims - Evidence - Reason

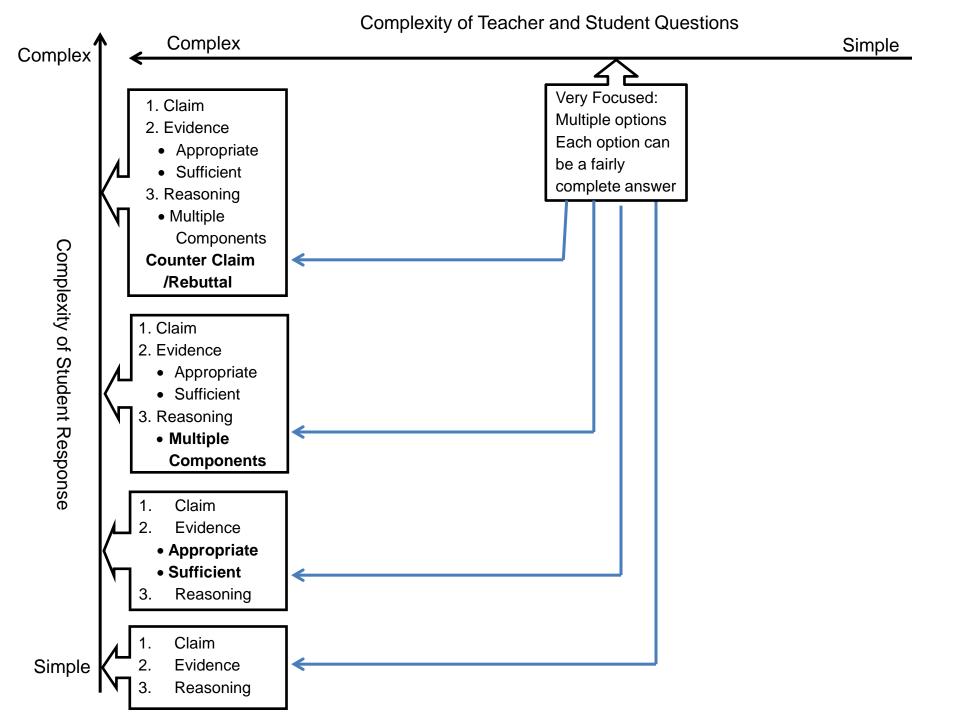
Simple

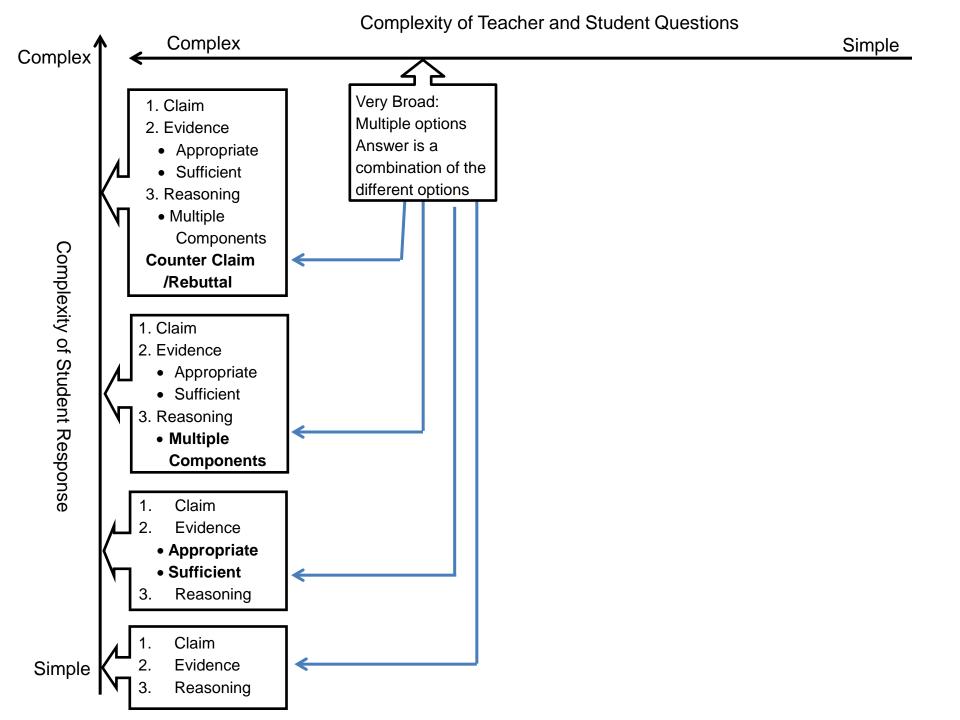












To apply C-E-R to their writing, first students have to know:

What is a claim?
What is substantial evidence?
What is a relevant reason?

Claim

In writing, a claim is a statement about the solution to a problem or question.

Question:

Will supporting students with C-E-R writing improve their understanding of the content?

Evidence

In writing, evidence is a **specific fact** that supports a claim.

In **science**, the fact is often referred to as "data".

Please help students understand that evidence is **NOT** an **opinion**!

Is It a Claim, or Is It Evidence

Partner A tell Partner B

Granite has many small crystals

Partner B tell Partner A

Granite is an Igneous Rock

Partner A tell Partner B

Combining vinegar and baking soda creates a chemical reaction

Partner B tell Partner A

The reaction produced bubbles (a gas)



Reasons

In writing, reasons explain **why** your evidence proves your claim to be true.

In science, this usually includes the science principle involved.

Mhat do You

In other words

How do you know that?

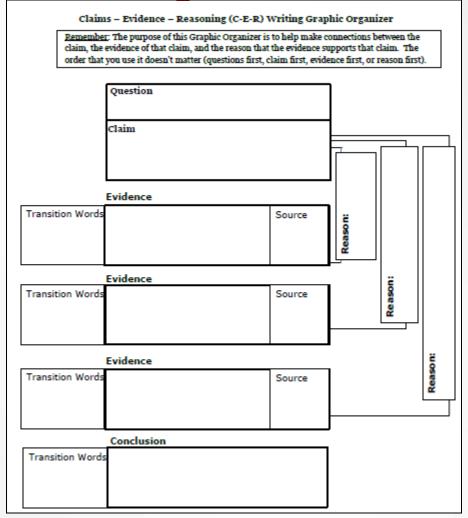
Claim + Evidence

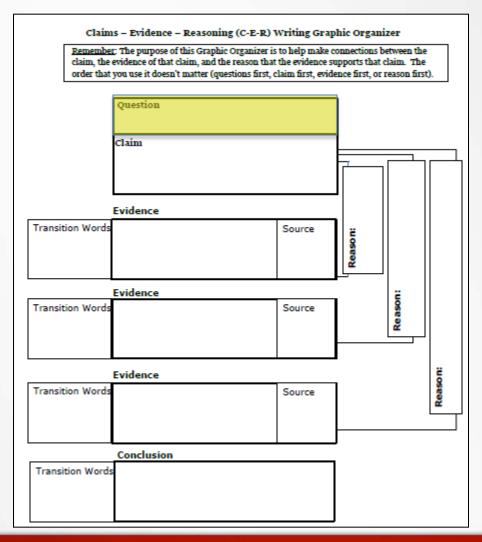
Why does
your
evidence
support your
claim?

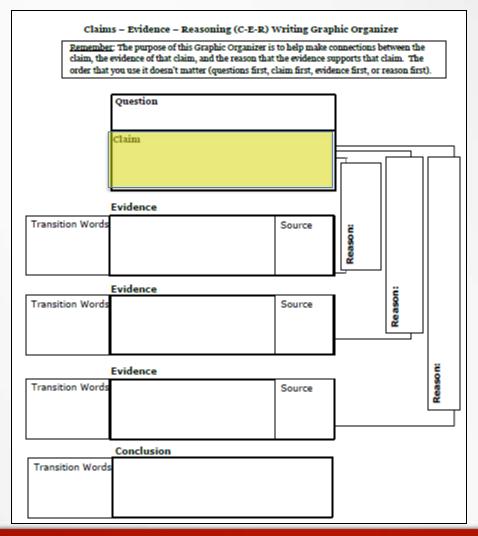
+ Reasoning =

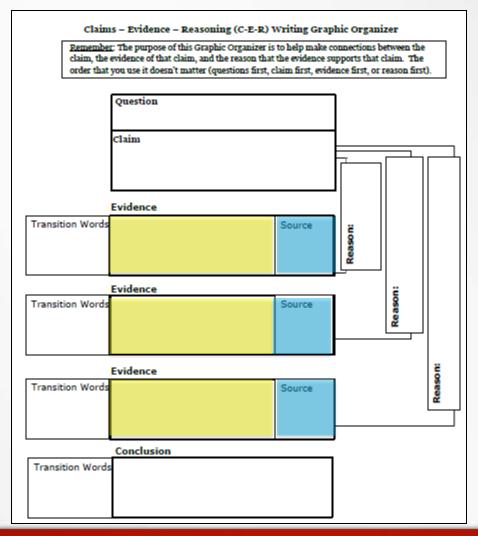
Explanation

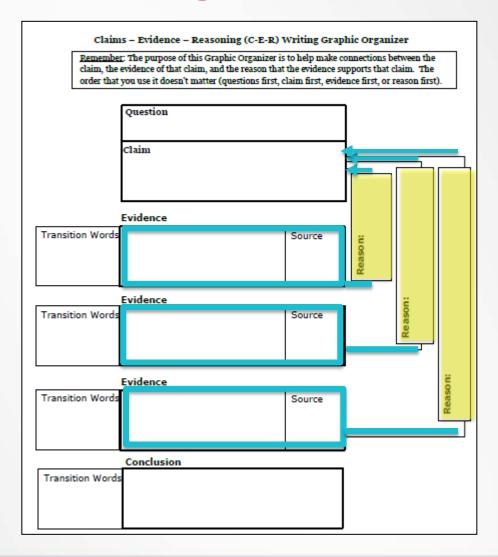
Let's apply what we have just seen.

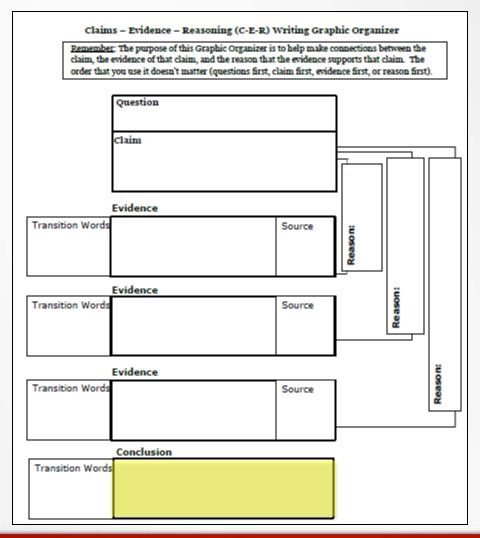












Transition Words

- Act as a roadmap for the reader
- Signal readers
 how to organize
 what they are
 about to read in
 context with what
 they have
 previously read.

Words that can be used to sequence events:

priorto since first, second at the same time last finally to emphasize to begin with

Words that can be used to emphasize a point:

again truly especially for this reason to repeat in fact to emphasize

Words that can be used to clarify:

that is for instance in other words

Words that can be used to add information:

again another for instance for example also and moreover additionally

as well besides along with other

next finally in addition

Word that can be used to compare two things:

likewise also while inthesameway

like as similarly

Words that can be used to contrast two things:

but still although on the other hand

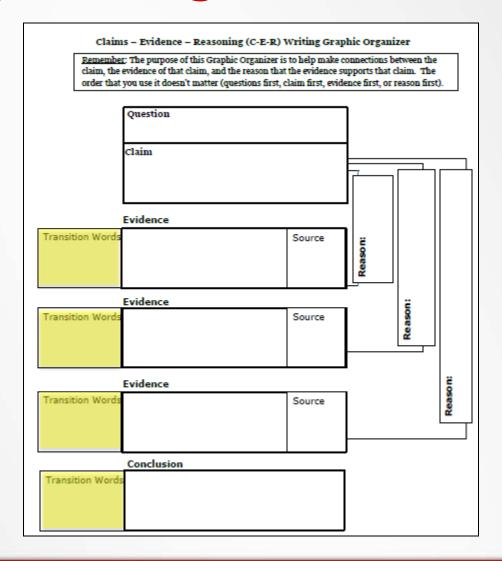
however yet otherwise even though

Words that can be used to conclude or summarize:

finally as a result to sum up in conclusion

lastly therefore all in all because

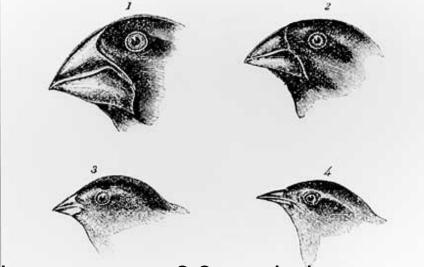




J	ſ	
is - Evidence - Reasoning (C-E-R) Writing Grap		
g: The purpose of this Graphic Organizer is to help make of evidence of that claim, and the reason that the evidence su		
you use it doesn't matter (questions first, claim first, evide		
Question		
Claim		
<u> </u>		
Evidence		
	Source	
Evidence		
i	Source	
Evidence		
Evidence	Source	
	Source	
Conclusion		
5		
II		
II		
<u> </u>		

In the Pacific Ocean, 500 miles off the west coast of Ecuador, lay the Galapagos Islands. On the islands, there are over a dozen species of small birds called Darwin's Finches. The

different bird species are all basically the same except for their beaks. Each species' beak is a different size and shape, and each



beak is specialized for the type of food that the bird eats.



Directions for Classroom:

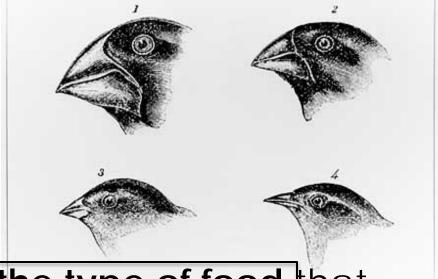
- 1. Read "Darwin's Finches"
- 2. Note any words or ideas that you don't understand.
- 3. Discuss problematic words and ideas.
- 4. Read the question, and write your claim.

Directions for Classroom (continued):

- 5. Read "Darwin's Finches" a 2nd time.
- Underline evidence that supports your claim.
- 7. Draw a box around the reason in the article that supports each piece of evidence.

In the Pacific Ocean, 500 miles off the west coast of Ecuador, lay the Galapagos Islands. On the islands, there are over a dozen species of small birds called Darwin's Finches. The

different bird species are all basically the same except for their beaks. Each species' beak is a different size and shape, and each



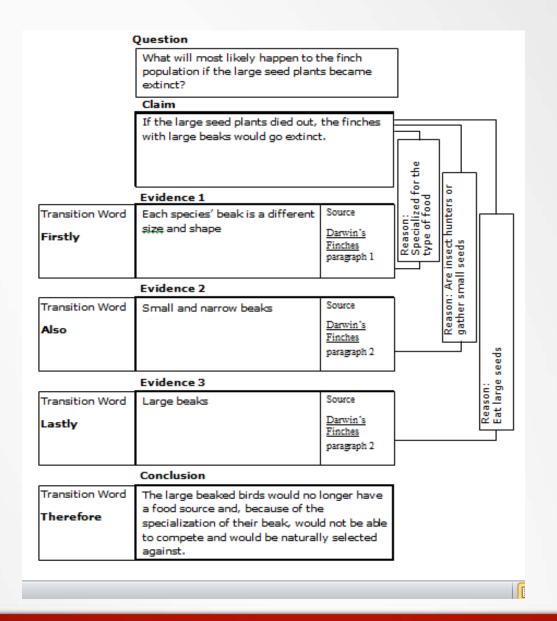
beak is **specialized for the type of food** that the bird eats.



Directions for Classroom (continued):

- Transfer each pieces of evidence with the related reason to the C-E-R graphic organizer.
- 9. Remember to include your source.
- 10. Summarize in the conclusion.
- 11. Selection transition words.
- 12. Write paragraph.





Sample Paragraph

If the large seed plants died out in the Galapagos Island, I believe that the finches with large beaks would go extinct. Firstly, as explained in the first paragraph of "Darwin's Finches", each species' beak is a different size and shape. Each beak's size and shape makes it specialized to eat a different type of food more easily. Also, paragraph 2 of the same articles goes on to say that finches with small and narrow beaks survive by gathering small seeds or hunting insects. Lastly, the large beaked finches eat large seeds. Therefore, I believe that if the large seed plants died out, the large beaked birds would no longer have a food source and, because of the specialization of their beaks, these finches would not be able to survive.



Claims-Evidence-Reasoning Writing Why is this important?

- It is the basis of much of the CCSS Writing Standard #1 - Argumentative Writing Standard #2 - Explanatory Writing Standard #4 - Clear, organized writing Standard #8 - Use evidence from multiple sources Standard #9 - Draw evidence from text
- It is the basis of NGSS Science and Engineering Practices #6 - Constructing Explanations . . .
 - #7 Engaging in Argument from Evidence
 - #8 ... evaluating and communicating information

Claims-Evidence-Reasoning Writing Why is this important?

- Writing helps students learn:
 - It forces them to organize their thoughts and find relationships between ideas.
 - Writing holds ideas in place long enough for students to think about them.
 - Writing helps get all students to participate in learning.
- Writing helps you (as the teacher) spot misconceptions.

Claims - Evidence - Reason Writing

 What does Claims – Evidence – Reasoning writing look like in some of these types of writing?

- Constructed responses
- Performance Assessments
- Research Reports
- Public Service Announcements

- Lab Reports
- Essays
- Debates
- Editorials
- Speeches

C-E-R in Constructed Response

State the Claim. State the first piece of evidence with its source and the reason that is supports the claim. State the second piece of evidence with its source and the reason that is supports the claim. State the third piece of evidence with its source and the reason that is supports the claim. Summarize the support for the claim in the concluding sentence.



C-E-R in Constructed Response

- Claim
- Evidence 1 & Reason 1
- Evidence 2 & Reason 2
- Evidence 3 & Reason 3
- Conclusion summaries the reasons & evidence.

C-E-R in a Lab Report

Hypothesis is the Claim

The Data is the Evidence

The Conclusion is the science principle that support all the evidence.

C-E-R in a Lab Report

- Claim
- Evidence 1
- Evidence 2
- Evidence 3
- Conclusion summarizes Reason 1, Reason 2, and Reason 3.

Claims - Evidence - Reason Writing

Sample text types:

- Constructed responses
- Performance Assessments
- Research Reports
- Public Service Announcements
- Lab Reports
- Essays
- Debates

- Editorials
- Speeches

How could you use this graphic organizer to support students C-E-R writing for some of these different writing types?

Relationships and Convergences

Found in:
1. CCSS for Mathematics
(practices)
2a. CCSS for ELA &
Literacy (student capacity)
2b. ELPD Framework
(ELA "practices")
3. NGSS (science and engineering practices)

Notes:

- MPI-MP8 represent CCSS Mathematical Practices (p. 6-8).
- SPI—SP8 represent NGSS Science and Engineering Practices.
- EPI-EP6 represent CCSS for ELA "Practices" as defined by the ELPD Framework (p. 11).
- EP7* represents CCSS for ELA student "capacity" (p. 7).

Stanford GRADUATE SCHOOL OF EDUCATION

Understanding Language Language Language Language

Cheuk, T. (2013). Relationships and convergences among the CCSS and NGSS Standards for Practice. Refined version of diagram created by the Understanding Language Initiative for the ELPA 21 Consortium States' ELP Standards. Palo Alto, CA: Stanford University.

Math

MPI. Make sense of problems and persevere in solving them

MP2. Reason abstractly and quantitatively

MP6. Attend to precision

MP7. Look for and make use of structure

MP8. Look for and express regularity in repeated reasoning

Lyse technology and digital media strategically and capably

MP5. Use appropriate tools strategically

Science

SP2. Develop and use models

MP4. Model with mathematics

SP5. Use mathematics and computational thinking

SP1. Ask questions and define problems

> SP3. Plan and carry out investigations

> > SP4. Analyze and interpret data

SP6. Construct explanations and design solutions

EP1. Support analysis of a range of gradelevel complex texts with evidence

MP3 and EP3. Construct viable and valid arguments from evidence and critique reasoning of others

SP7. Engage in argument from evidence

and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience

SP8.

Obtain,

information

evaluate, and

communicate

EP4. Build and present knowledge through research by integrating, comparing, and synthesizing ideas from text

EPS. Build upon the ideas of others and articulate their own clearly when working collaboratively

> EP6. Use English structures to communicate context specific messages

> > ELA



Outcomes/Agenda:

- Identify types of writing in your class that use C-E-R
- Examine levels of complexities for creating Claims, and for Student Responses
- Learn how to use a new C-E-R Graphic Organizer to support students by using it

Any questions about C-E-R Writing or the Graphic Organizer?



Contact Information:
Sandi Yellenberg
Santa Clara County Office of Education
Sandra_yellenberg@sccoe.org

