

Evidence

Evidence

Reasoning

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**Students can organize
their thinking by filling
it the different graphic
organizers**

SCIENTIFIC EXPLANATION

Question:

Name: _____

Claim:

Class: _____

What is your answer to the question?

Supporting Evidence #1:

Supporting Evidence #2:

Supporting Evidence #3:

Writing template for students to make sure they include all the parts of a CER.

How does your evidence support your claim?

Summary: (Put it all together)

Claim, Evidence, and Reasoning

Claim

The claim answers the question. It states what you think. It is written in a scientific sentence using academic language. There should be no “I” in the statement.

Some sentence frames to help you write your claim statement

- * _____ causes _____.
- * _____ is the reason for _____.
- * _____ and _____ have many differences.

Evidence

The evidence is the actual observations, measurements, or data that you collect from your investigation.

Some

- * The _____
- * A _____
- * In the _____, the _____
- * In the _____ activity it was observed that _____.
- * A pattern that was discovered in the activity was _____.
- For example, _____.
- * It was discovered that _____. For example, _____.

Reasoning

The reasoning explains why the evidence supports the claim. It uses knowledge that is already known from science class and real world knowledge to link the evidence to the claim.

Some sentence frames to help you write your reasoning statement

- * This indicates _____.
- * This supports the claim because _____.
- * This is important because _____.
- * This suggests that _____.

Language support to help students start their sentences and formulate their ideas using academic language

SCIENTIFIC EXPLANATION

Grading Rubric

	4	3	2	1	0
Claim	Claim is accurate and complete	Claim is accurate but not complete	Claim is partially accurate or complete	Claim is inaccurate	No claim is stated
Evidence	Provides appropriate and sufficient evidence that includes measurements, observations, and data that have been analyzed and interpreted to support the claim	Provides	Provides appropriate but		
Reasoning	Explains correct scientific principles and how the evidence supports the claim				
Mechanics	The writing is easy to follow with lots of academic language and details. Contains no grammar or spelling errors.	easy to follow with lots of details and a few grammar or spelling errors.	to follow with only some details. Contains some grammar or spelling errors.	The writing is hard to follow with few details. Contains a lot of grammar or spelling errors.	Hard to follow with no details. Contains a lot of grammar and spelling errors.

Simple generic rubric for grading by the teacher, peers, or self-reflection

Comments:

Total Points

Grade



Teaching STEM Through Inquiry

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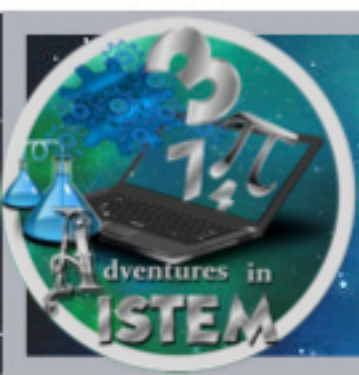
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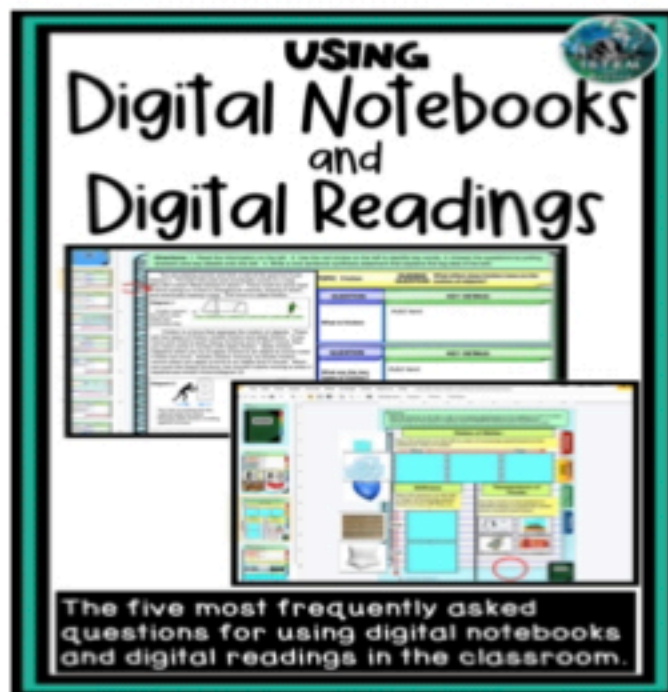




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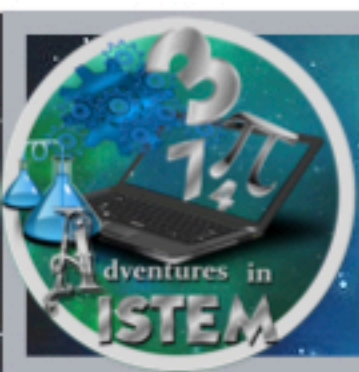
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I would also recommend checking out my Google Slide videos that demonstrate how to drag and drop pieces, write in the text boxes, add objects, and more. These are short videos that can easily be shared with students and parents. Click the picture for the link





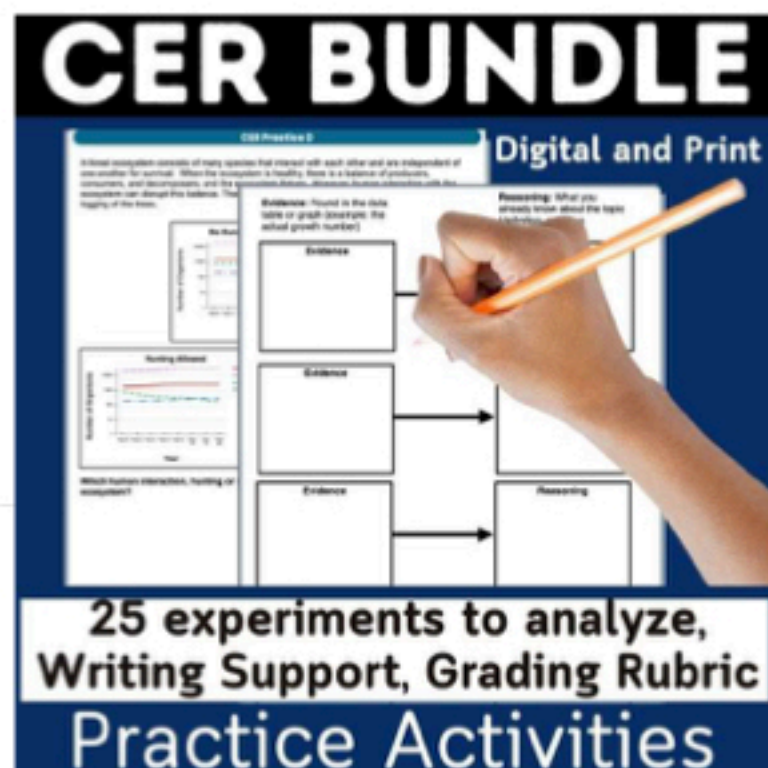
All About CER



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