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Claim Evidence Reasoning Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the primary purpose of a claim in the CER framework?

undefined. To provide evidence

undefined. To make an assertion ✓

undefined. To analyze data

undefined. To summarize findings

The primary purpose of a claim is to make an assertion.

Which of the following are types of evidence used in the CER framework?

undefined. Empirical evidence ✓

undefined. Quantitative evidence ✓

undefined. Anecdotal evidence ✓

undefined. Qualitative evidence ✓

Types of evidence include empirical, quantitative, anecdotal, and qualitative evidence.

Define reasoning in the context of the CER framework and explain its role.

Reason reasoning explains how the evidence supports the claim, linking the two together.

List two characteristics of a strong claim.

1. Characteristic 1

Clear and specific

2. Characteristic 2

Debatable

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A strong claim is clear and specific, and it is debatable.

What type of evidence is described as numerical data or measurements?

undefined. Qualitative evidence

undefined. Empirical evidence

undefined. Quantitative evidence ✓

undefined. Descriptive evidence

Quantitative evidence is described as numerical data or measurements.

Part 2: Application and Analysis

You are given data showing that plants grow faster in red light than in blue light. What would be an appropriate claim based on this evidence?

undefined. Plants do not need light to grow.

undefined. Red light is more effective for plant growth than blue light. ✓

undefined. Blue light is harmful to plants.

undefined. All plants grow at the same rate.

An appropriate claim would be that red light is more effective for plant growth than blue light.

When applying the CER framework to a historical analysis, which elements are crucial for constructing a strong argument?

undefined. Reliable historical documents as evidence ✓

undefined. A clear thesis statement as the claim ✓

undefined. Logical reasoning connecting evidence to the thesis ✓

undefined. Personal opinions as evidence

Key elements include reliable historical documents, a clear thesis statement, and logical reasoning.

Describe how you would apply the CER framework to argue the benefits of renewable energy sources.

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You would state a claim about renewable energy, provide supporting evidence, and explain the reasoning.

In a scientific experiment, why is it important to distinguish between qualitative and quantitative evidence?

undefined. To ensure the experiment is entertaining

undefined. To balance subjective and objective data ✓

undefined. To provide a variety of data types

undefined. To simplify the experiment

It is important to balance subjective and objective data.

Analyze the following scenario: A student claims that studying with music improves concentration. Which pieces of evidence would strengthen this claim?

undefined. A survey of students who prefer studying with music

undefined. A study showing improved test scores with background music ✓

undefined. Personal anecdotes about music preferences

undefined. Research on the effects of music on cognitive performance ✓

Evidence that shows improved test scores and research on music's effects would strengthen the claim.

Analyze the reasoning process in the following argument: "Because the data shows a decrease in pollution levels after implementing stricter regulations, it can be concluded that these regulations are effective."

The reasoning connects the evidence of decreased pollution to the effectiveness of regulations.

Part 3: Evaluation and Creation

Which of the following best evaluates the strength of a CER argument?

undefined. The length of the reasoning section

undefined. The relevance and reliability of the evidence ✓

undefined. The complexity of the claim

undefined. The number of evidence pieces provided

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The relevance and reliability of the evidence best evaluate the strength of a CER argument.

Evaluate the following claim: "Implementating a four-day workweek increases productivity." Which factors should be considered to assess this claim?

undefined. **Studies comparing productivity levels in different workweek structures** ✓

undefined. **Employee satisfaction surveys** ✓

undefined. **Historical data on workweek changes** ✓

undefined. Personal opinions of managers

Factors to consider include studies on productivity levels, employee satisfaction, and historical data.

Create a CER argument for the following scenario: "The use of digital textbooks in schools enhances student learning."

You would state a claim about digital textbooks, provide evidence of their effectiveness, and explain the reasoning.

Propose two real-world scenarios where the CER framework could be effectively applied.

1. Scenario 1

Scientific research

2. Scenario 2

Policy-making

The CER framework can be applied in scientific research and policy-making.

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