

# Claim Evidence Reasoning Worksheet

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## CLAIM • EVIDENCE • REASONING

### CER Word Sort

Organize the following words into a two (or three) column word sort. There are many best solutions.

- argument
- claim
- conclusion
- data
- evidence
- hypothesis
- inference
- observation
- opinion
- reasoning

Column 1	Column 2	Column 3 (optional)

Explain briefly why you chose to sort the words in the columns above.

\_\_\_\_\_

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**CLAIM EVIDENCE REASONING WORKSHEET** IS AN EDUCATIONAL TOOL DESIGNED TO HELP STUDENTS STRUCTURE THEIR ARGUMENTS AND ANALYZE INFORMATION EFFECTIVELY. THIS METHOD IS PARTICULARLY POPULAR IN SCIENCE AND LANGUAGE ARTS CLASSROOMS, AS IT ENCOURAGES CRITICAL THINKING AND ENHANCES STUDENTS’ ABILITY TO ARTICULATE THEIR IDEAS CLEARLY. THE WORKSHEET TYPICALLY CONSISTS OF THREE KEY COMPONENTS: THE CLAIM, THE EVIDENCE, AND THE REASONING. EACH COMPONENT PLAYS A CRUCIAL ROLE IN HELPING STUDENTS DEVELOP THEIR ARGUMENTS AND ENGAGE IN MEANINGFUL DISCUSSIONS. IN THIS ARTICLE, WE WILL EXPLORE THE STRUCTURE OF THE CLAIM EVIDENCE REASONING (CER) WORKSHEET, ITS EDUCATIONAL SIGNIFICANCE, AND METHODS FOR IMPLEMENTATION IN THE CLASSROOM.

## UNDERSTANDING THE COMPONENTS OF THE CER WORKSHEET

THE CLAIM EVIDENCE REASONING FRAMEWORK IS BUILT UPON THREE ESSENTIAL COMPONENTS THAT WORK TOGETHER TO FORM A COHERENT ARGUMENT.

# 1. CLAIM

THE CLAIM IS A STATEMENT OR ASSERTION THAT PRESENTS THE MAIN IDEA OR ARGUMENT. IT SHOULD BE CLEAR, CONCISE, AND SPECIFIC. THE CLAIM SERVES AS THE STARTING POINT FOR THE ARGUMENT AND REFLECTS THE STUDENT'S POSITION ON THE TOPIC.

- CHARACTERISTICS OF AN EFFECTIVE CLAIM:
- CLARITY: THE CLAIM SHOULD BE STRAIGHTFORWARD AND EASILY UNDERSTOOD.
- SPECIFICITY: IT SHOULD FOCUS ON A PARTICULAR ASPECT OF THE TOPIC RATHER THAN BEING VAGUE.
- DEBATABLE: A GOOD CLAIM INVITES DISCUSSION AND CAN BE SUPPORTED OR CHALLENGED WITH EVIDENCE.

# 2. EVIDENCE

EVIDENCE IS THE DATA OR INFORMATION THAT SUPPORTS THE CLAIM. IT CAN COME FROM VARIOUS SOURCES, INCLUDING EXPERIMENTS, OBSERVATIONS, SCHOLARLY ARTICLES, OR OTHER CREDIBLE REFERENCES. THE EVIDENCE SHOULD BE RELEVANT AND SUFFICIENT TO SUBSTANTIATE THE CLAIM MADE.

- TYPES OF EVIDENCE:
- QUANTITATIVE DATA: NUMERICAL DATA THAT CAN BE MEASURED AND ANALYZED STATISTICALLY.
- QUALITATIVE DATA: DESCRIPTIVE DATA THAT PROVIDES INSIGHTS INTO THE PHENOMENON BEING STUDIED.
- ANECDOTAL EVIDENCE: PERSONAL STORIES OR EXPERIENCES THAT ILLUSTRATE THE CLAIM, THOUGH THEY SHOULD BE USED SPARINGLY AND ASSESSED CRITICALLY.

# 3. REASONING

REASONING CONNECTS THE EVIDENCE TO THE CLAIM AND EXPLAINS WHY THE EVIDENCE SUPPORTS THE CLAIM. THIS COMPONENT DEMONSTRATES THE STUDENT'S UNDERSTANDING OF THE TOPIC AND THEIR ABILITY TO THINK CRITICALLY ABOUT THE EVIDENCE PRESENTED.

- ELEMENTS OF STRONG REASONING:
- LOGICAL CONNECTIONS: THE REASONING SHOULD CLEARLY EXPLAIN HOW THE EVIDENCE SUPPORTS THE CLAIM.
- CONTEXTUAL UNDERSTANDING: IT SHOULD REFLECT AN UNDERSTANDING OF THE BROADER CONTEXT OF THE ARGUMENT.
- ADDRESSING COUNTERARGUMENTS: ACKNOWLEDGE AND REFUTE POTENTIAL COUNTERARGUMENTS TO STRENGTHEN THE OVERALL ARGUMENT.

## THE IMPORTANCE OF THE CER FRAMEWORK IN EDUCATION

THE CLAIM EVIDENCE REASONING WORKSHEET IS AN EFFECTIVE PEDAGOGICAL TOOL FOR SEVERAL REASONS:

### 1. PROMOTES CRITICAL THINKING

BY REQUIRING STUDENTS TO FORMULATE CLAIMS AND SUPPORT THEM WITH EVIDENCE, THE CER FRAMEWORK ENCOURAGES CRITICAL THINKING. STUDENTS LEARN TO EVALUATE INFORMATION, DIFFERENTIATE BETWEEN STRONG AND WEAK EVIDENCE, AND CONSTRUCT LOGICAL ARGUMENTS.

### 2. ENHANCES WRITING SKILLS

THE STRUCTURED FORMAT OF THE CER WORKSHEET HELPS STUDENTS IMPROVE THEIR WRITING SKILLS. THEY LEARN TO PRESENT

THEIR IDEAS COHESIVELY, ENSURING THAT EACH PART OF THEIR ARGUMENT CONTRIBUTES TO THE OVERALL MESSAGE. THIS SKILL IS TRANSFERABLE TO VARIOUS WRITING TASKS ACROSS DIFFERENT SUBJECTS.

### 3. FOSTERS SCIENTIFIC LITERACY

IN SCIENCE EDUCATION, THE CER FRAMEWORK IS PARTICULARLY BENEFICIAL AS IT ALIGNS WITH THE SCIENTIFIC METHOD. STUDENTS PRACTICE FORMING HYPOTHESES (CLAIMS), CONDUCTING EXPERIMENTS (EVIDENCE), AND ANALYZING RESULTS (REASONING), THEREBY ENHANCING THEIR SCIENTIFIC LITERACY.

### 4. ENCOURAGES COLLABORATION AND DISCUSSION

THE CER WORKSHEET CAN BE USED IN COLLABORATIVE SETTINGS, PROMOTING PEER-TO-PEER DISCUSSIONS. STUDENTS CAN SHARE THEIR CLAIMS, EVALUATE EACH OTHER'S EVIDENCE, AND REFINE THEIR REASONING BASED ON FEEDBACK, FOSTERING A DEEPER UNDERSTANDING OF THE SUBJECT MATTER.

## IMPLEMENTING THE CER WORKSHEET IN THE CLASSROOM

INTEGRATING THE CLAIM EVIDENCE REASONING WORKSHEET INTO CLASSROOM ACTIVITIES CAN BE DONE IN VARIOUS WAYS. HERE ARE SOME EFFECTIVE STRATEGIES:

### 1. MODEL THE PROCESS

TEACHERS CAN BEGIN BY MODELING THE CER PROCESS USING A SAMPLE TOPIC. BY CONSTRUCTING A CLAIM, GATHERING EVIDENCE, AND PROVIDING REASONING IN FRONT OF THE CLASS, STUDENTS CAN SEE THE PROCESS IN ACTION.

- EXAMPLE TOPIC: "SHOULD SCHOOL UNIFORMS BE MANDATORY?"
- CLAIM: SCHOOL UNIFORMS SHOULD BE MANDATORY BECAUSE THEY PROMOTE EQUALITY AMONG STUDENTS.
- EVIDENCE: A STUDY CONDUCTED BY THE NATIONAL CENTER FOR EDUCATION STATISTICS FOUND THAT SCHOOLS WITH UNIFORM POLICIES REPORT LOWER INSTANCES OF BULLYING.
- REASONING: THIS EVIDENCE SHOWS THAT UNIFORMS CAN REDUCE SOCIAL PRESSURES RELATED TO CLOTHING CHOICES, CREATING A MORE INCLUSIVE ENVIRONMENT FOR ALL STUDENTS.

### 2. GUIDED PRACTICE

AFTER MODELING, TEACHERS CAN FACILITATE GUIDED PRACTICE SESSIONS. PROVIDE STUDENTS WITH A TOPIC AND HAVE THEM WORK IN PAIRS OR SMALL GROUPS TO DEVELOP THEIR CLAIMS, GATHER EVIDENCE, AND FORMULATE REASONING.

- STEPS FOR GUIDED PRACTICE:
  1. CHOOSE A RELEVANT TOPIC.
  2. BRAINSTORM POSSIBLE CLAIMS.
  3. RESEARCH AND GATHER EVIDENCE.
  4. WRITE REASONING THAT CONNECTS THE EVIDENCE TO THE CLAIM.

### 3. INDEPENDENT PRACTICE

ONCE STUDENTS ARE COMFORTABLE WITH THE CER FRAMEWORK, ASSIGN INDEPENDENT PRACTICE TASKS. THIS COULD INVOLVE

WRITING ESSAYS OR REPORTS THAT REQUIRE THEM TO UTILIZE THE CER STRUCTURE.

- ASSIGNMENT IDEAS:
- WRITE A PERSUASIVE ESSAY ON A CURRENT SOCIAL ISSUE USING THE CER FORMAT.
- CREATE A SCIENTIFIC REPORT BASED ON A RECENT EXPERIMENT, DETAILING THE CLAIM, EVIDENCE, AND REASONING.

## 4. PEER REVIEW AND FEEDBACK

INCORPORATE PEER REVIEW SESSIONS WHERE STUDENTS EXCHANGE THEIR CER WORKSHEETS AND PROVIDE CONSTRUCTIVE FEEDBACK. THIS NOT ONLY HELPS THEM REFINE THEIR ARGUMENTS BUT ALSO ENCOURAGES THEM TO CRITICALLY EVALUATE OTHERS' WORK.

## 5. INCORPORATING TECHNOLOGY

UTILIZE DIGITAL TOOLS TO ENHANCE THE LEARNING EXPERIENCE. STUDENTS CAN USE COLLABORATIVE PLATFORMS LIKE GOOGLE DOCS TO WORK ON CER ASSIGNMENTS TOGETHER AND PROVIDE REAL-TIME FEEDBACK.

## CONCLUSION

THE CLAIM EVIDENCE REASONING WORKSHEET IS AN INVALUABLE EDUCATIONAL TOOL THAT FOSTERS CRITICAL THINKING, ENHANCES WRITING SKILLS, AND PROMOTES SCIENTIFIC LITERACY AMONG STUDENTS. BY BREAKING DOWN THE COMPONENTS OF AN ARGUMENT INTO CLAIM, EVIDENCE, AND REASONING, EDUCATORS CAN PROVIDE STUDENTS WITH A STRUCTURED APPROACH TO ARTICULATE THEIR IDEAS EFFECTIVELY. THROUGH MODELING, GUIDED PRACTICE, INDEPENDENT ASSIGNMENTS, PEER REVIEW, AND THE USE OF TECHNOLOGY, TEACHERS CAN SEAMLESSLY INTEGRATE THE CER FRAMEWORK INTO THEIR CLASSROOMS, ENCOURAGING STUDENTS TO ENGAGE DEEPLY WITH CONTENT AND DEVELOP ROBUST ARGUMENTATIVE SKILLS. AS STUDENTS BECOME PROFICIENT IN USING THE CER WORKSHEET, THEY WILL BE BETTER EQUIPPED TO TACKLE COMPLEX ISSUES IN BOTH ACADEMIC AND REAL-WORLD CONTEXTS, PAVING THE WAY FOR INFORMED AND THOUGHTFUL DISCOURSE.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS A CLAIM EVIDENCE REASONING (CER) WORKSHEET?

A CER WORKSHEET IS A STRUCTURED TOOL USED TO HELP STUDENTS ARTICULATE THEIR UNDERSTANDING OF A SCIENTIFIC CONCEPT BY MAKING A CLAIM, PROVIDING EVIDENCE TO SUPPORT IT, AND EXPLAINING THE REASONING BEHIND THE CLAIM.

### HOW CAN I EFFECTIVELY USE A CER WORKSHEET IN THE CLASSROOM?

TEACHERS CAN USE CER WORKSHEETS BY INTRODUCING A SCIENTIFIC QUESTION, GUIDING STUDENTS TO FORMULATE CLAIMS, PROMPTING THEM TO GATHER EVIDENCE, AND ENCOURAGING THEM TO EXPLAIN THEIR REASONING IN A COLLABORATIVE OR INDIVIDUAL SETTING.

### WHAT ARE THE MAIN COMPONENTS OF A CER WORKSHEET?

THE MAIN COMPONENTS OF A CER WORKSHEET INCLUDE THE CLAIM (A STATEMENT OR CONCLUSION), EVIDENCE (DATA OR FACTS THAT SUPPORT THE CLAIM), AND REASONING (THE EXPLANATION OF HOW THE EVIDENCE SUPPORTS THE CLAIM).

### HOW DOES USING A CER WORKSHEET BENEFIT STUDENTS?

USING A CER WORKSHEET BENEFITS STUDENTS BY ENHANCING THEIR CRITICAL THINKING SKILLS, PROMOTING SCIENTIFIC LITERACY, AND HELPING THEM TO CLEARLY COMMUNICATE THEIR UNDERSTANDING OF SCIENTIFIC CONCEPTS.

# CAN CER WORKSHEETS BE USED IN SUBJECTS OTHER THAN SCIENCE?

Yes, CER worksheets can be adapted for use in other subjects such as social studies and language arts, where students can formulate claims about texts or historical events and support them with evidence.

# WHAT ARE SOME COMMON PITFALLS WHEN USING CER WORKSHEETS?

Common pitfalls include students providing insufficient evidence, failing to connect the evidence to the claim, or lacking clarity in their reasoning. It's important to provide guidance and feedback to avoid these issues.

# ARE THERE DIGITAL TOOLS AVAILABLE FOR CREATING CER WORKSHEETS?

Yes, there are various digital tools and platforms such as Google Docs, Microsoft OneNote, and specialized educational apps that allow teachers and students to create and share CER worksheets online.

# HOW CAN I ASSESS STUDENT WORK ON CER WORKSHEETS?

Assessment can be done using rubrics that evaluate the clarity of the claim, the relevance and quality of the evidence, and the depth of the reasoning provided. Peer reviewing can also be an effective assessment method.

# WHAT STRATEGIES CAN HELP STUDENTS IMPROVE THEIR REASONING IN CER WORKSHEETS?

Strategies include modeling examples of strong reasoning, providing sentence starters, encouraging peer discussions, and offering feedback that focuses specifically on the reasoning component of their claims.

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# Claim Evidence Reasoning Worksheet

claim4 -  
claim2 claim“...”

claim -  
Mar 28, 2024 · 10. Can you claim for the loss on your insurance? claim ...

claim declare announce assert  
1 claim claim 2 declare declare  
3 announce announce ...

declare claim -  
Oct 12, 2024 · “claim” “” “declare” “I declare that we will proceed with the plan” ...

claim declaration declare assert

1claimclaim 2declaredeclare 3announceannounce ...

SCI Comments

SCI Comments comments ...

-

Oct 25, 2024 · /plot claim ...

ipx4 -

Feb 18, 2024 · IPX4IP53 IPX4IP53?

claim? -

claim “that” “to be/as n./adj.” claim “... ” ...

-

Dec 1, 2017 · 021-96990 021-68347575 021-68345201 021-68340096 021-96990 ...

claim4 -

claim2claim “... ”

claim -

Mar 28, 2024 · 10. Can you claim for the loss on your insurance? claim ...

claim declare announce assert -

1claimclaim 2declaredeclare 3announceannounce ...

declareclaim -

Oct 12, 2024 · “claim” “” “declare” “I declare that we will proceed with the plan” “claim” ...

claim declaration declare assert -

1claimclaim 2declaredeclare 3announceannounce ...

SCI Comments

SCI Comments comments ...

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Oct 25, 2024 · /plot claim ...

ipx4 -

Feb 18, 2024 · IPX4IP53XXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXIPX4IP53XXXXXXXXXXXXXXXXXXXXXXXXXXXX?  
XXXXXXXXXXXXIPX4IP53XXXX ...

*claim*□□□□□□? - □□□□

claim “ ” that “to be/as n./adj. ” claim “[...  
 ” ...

[illegible]

Dec 1, 2017 · 0000000000 021-96990 0000 021-68347575 0000 021-68345201 0000  
021-68340096 000000 021-96990 0000000000 0000 0 ...

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