




# UNIT 5: CHEMISTRY OF CLIMATE CHANGE

Workbook 5.2: Climate Change

Lesson 14: Deciding About the Atmosphere



**GUIDING QUESTION:** WHAT ARE SOME CONSIDERATIONS THAT ARE INVOLVED IN MAKING POLICIES & DECISIONS RELATED TO GLOBAL CLIMATE CHANGE AND WHAT IS THE ROLE OF SCIENTIFIC KNOWLEDGE?

- **Do Now:**

1. Do you know of any actions that state government, businesses, or communities are taking to address climate change? List.
2. What would you do about climate change if you had the power to implement new laws and policies?

# Scientific Explanations

## CER

### Claim – Evidence – Reasoning

#### Claim

*Statement about the results of an investigation*

- A one-sentence answer to the question you investigated
- It answers, **what can you conclude?**
- It should not start with **yes** or **no**.
- It should describe the relationship between **dependent** and **independent** variables.

#### Evidence

*Scientific data used to support the claim*

Evidence must be:

- **Sufficient** – Use enough evidence to support the claim thoroughly.
- **Appropriate** – Use data that supports your claim. Leave out information that doesn't support your claim.
- **Qualitative and Quantitative** – Using the senses, numbers, or both.

#### Reasoning

*Ties together the claim and the evidence*

- Shows **how** or **why** the data counts as evidence to support the claim
- Provides the justification for why this evidence is important to **this** claim.
- Includes one or more **scientific principles** that are important to the claim and evidence.

# Scientific Explanations CER Outline

## Claim

*Statement about the results of an investigation*

## Evidence

*Scientific data used to support the claim*

- 1.
- 2.
- 3.

## Reasoning

*Ties together the claim and the evidence (numbers in evidence correlate with numbers in reasoning; number 1 reasoning explains number 1 evidence)*

- 1.
- 2.
- 3.

## Paragraph CER Outline

*Claim. Evidence 1 because of reasoning 1. Evidence 2 because of reasoning 2. Evidence 3 because of reasoning 3. (Repeat Evidence-Reasoning Cycle as needed or reduce for fewer pieces). Restate claim.*

# CLOSURE

- Answer Guiding Question on page 19:
  - What are some considerations that are involved in making policies & decisions related to global climate change and what is the role of scientific knowledge?
- Benchmark #4 next block (5/2 & 5/3).
  - Workbook 5.2 due at the Benchmark.
  - Benchmark Review is your homework this week – due 5/4.
- Achieve 3000: “Making the World Clean and Safe” due Friday, 5/4.