

# CER: Body Systems

INSTRUCTOR:

no\_reply@example.com



## What is C.E.R.?

C.E.R. stands for **Claim, Evidence, and Reasoning**. It's a way to explain and support your ideas using facts and logical thinking. You will make a claim, back it up with evidence, and explain why the evidence supports your claim. This process helps you think critically and organize your ideas clearly.

## Steps for Writing Your C.E.R. Response:

### 1. Read the Article Carefully:

- First, read the background article about how plants and body systems work together. Make sure you understand the key ideas in the article.

### 2. Write Your Claim:

- Your **claim** is your main idea or statement that answers the question. It is your position or opinion about the topic.
- Use the **Claim Sentence Starter** to help you get started. This will guide you in making a strong, clear statement.
- Example:**  
*The respiratory, circulatory, and muscular systems work together to maintain essential body functions by...*
- Highlight** the section in the article that helps support your claim.

### 3. Provide Evidence:

- Evidence** is the facts, data, or information from the article that supports your claim. You need to find at least **four pieces of evidence** from the article.
- Evidence can include details like descriptions, examples, or data from the article.
- Example:  
*The respiratory system provides oxygen and removes carbon dioxide, which is needed by the cells for energy.*

### 4. Explain the Evidence (Reasoning):

- Reasoning** is how you explain why the evidence supports your claim. This is where you connect the dots between your claim and the evidence.
- Use the **Sentence Frames** to help you explain how the evidence proves your claim.



- **Example:**

"This piece of evidence supports my claim because it shows how the respiratory system supplies oxygen to the body, which is necessary for energy production."

## 5. Organize Your Writing:

- Your response should have three parts:
  1. **Claim**
  2. **Evidence**
  3. **Reasoning**
- Use the Sentence Starters and Frames to help guide your writing.



### Background Article:

The human body has many **systems** that work together to keep us healthy and functioning. Three important systems that help us stay alive are the **respiratory system**, the **circulatory system**, and the **muscular system**. These systems interact to help us breathe, move, and make sure our body gets the oxygen it needs.

The **respiratory system** is responsible for taking in oxygen from the air and removing **carbon dioxide**, which is a waste product from our cells. Oxygen is needed by our cells to make energy, and carbon dioxide is a waste product that must be removed from the body. The **circulatory system**, which includes the heart and blood vessels, carries the oxygen from the lungs to all the cells in the body. It also takes the carbon dioxide from the cells back to the lungs, where it is breathed out.

The **muscular system** helps the body move, but it also plays a role in the **respiratory system**. Muscles in the chest and diaphragm help move air in and out of the lungs, allowing us to breathe. Muscles also help the **circulatory system** by pushing blood through blood vessels and helping the heart pump blood. Without muscles, the circulatory system wouldn't be able to move blood throughout the body.

The **digestive system** also works with the **circulatory system** to help the body get the nutrients it needs. After food is broken down into smaller parts, the **circulatory system** moves nutrients like **glucose** to the cells for energy. The **excretory system** helps remove waste from the body, such as **urine**, which is made by the kidneys and carried by the blood vessels.


## Research Question




***How do the respiratory, circulatory, and muscular systems work together to maintain essential body functions like oxygen exchange, nutrient absorption, and waste removal?***

**Brainstorming / Turn & Talk – 2–3 minutes prior to writing anything!**

Claims	Evidence	Reasoning


**Your Response:**

<b>Claim</b>	<input type="checkbox"/> Does the answer match the question? (The answer should be about the question.) <input type="checkbox"/> Does the answer explain why? (The answer should tell why.) <input type="checkbox"/> Is the answer more than just "yes" or "no"? (The answer should be more than just "yes" or "no.") <input type="checkbox"/> Is the answer a full sentence? (The answer should be a whole sentence.)	<b>Claim Sentence Starter:</b> <i>The respiratory, circulatory, and muscular systems work together to keep the body alive by...</i> (highlight the portion of the article you will refer to) ...
<b>Evidence</b>	<input type="checkbox"/> Do all the facts help? <input type="checkbox"/> Are there enough facts to help? <input type="checkbox"/> Are the facts only things seen or measured? <input type="checkbox"/> Are the facts very clear? <input type="checkbox"/> The article says that [insert evidence]. This means that...	<ul style="list-style-type: none"> <li>• <i>The respiratory system provides ...</i></li> <li>• <i>The circulatory system transports ...</i></li> <li>• <i>The muscular system helps ...</i></li> <li>• <i>The digestive system breaks down ...</i></li> </ul>

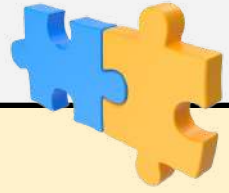


<b>Reasoning</b>	<ul style="list-style-type: none"><li><input type="checkbox"/> Does each reason explain why?</li><li><input type="checkbox"/> Does each reason connect to the answer?</li><li><input type="checkbox"/> Does each reason tell why the fact supports the answer?</li><li><input type="checkbox"/> Are the reasons written in whole sentences?</li></ul>	<i>This piece of evidence supports my claim because it shows how the systems rely on each other to... For example, [explain how the evidence shows the systems work together]."</i>

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

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

### **Final Draft: Putting it Together:**



A large, empty rectangular box with a black border, intended for the final draft of the project. The box is filled with a light yellow color.