

RESEARCH AND EVIDENCE ORGANIZER

IMPORTANT!

You are preparing for a scientific debate about genetically modified organisms (GMOs). Your goal is to build a strong argument using science, data, and reasoning—not just opinions.

Case File

Case Study

Your Role

- Team A: Defense (i.e. supports GMO use)
- Team B: Prosecution (i.e. Opposes GMO use)

PART A: Understand the Science

Use what you learned from the diagram to explain how this GMO works.

1. What organism is being modified?

2. What gene is being changed or inserted?

3. How is the gene inserted?
 - Agrobacterium method
 - DNA Particle Gun method
 - Other: _____

Explain in your own words:

4. What new trait does this organism have because of the change?

PART B: Gather Evidence

Find at least 3 strong pieces of evidence to support your position.

Tip: Strong arguments include both science and data.

Source	Type of Evidence	What did you learn?	Why does this help support your argument?
	<input type="checkbox"/> Biological <input type="checkbox"/> Data <input type="checkbox"/> Real-World Impact		
	<input type="checkbox"/> Biological <input type="checkbox"/> Data <input type="checkbox"/> Real-World Impact		
	<input type="checkbox"/> Biological <input type="checkbox"/> Data <input type="checkbox"/> Real-World Impact		

Tip: Make sure your evidence is reliable.

Using reliable sources is important in science because they provide evidence that helps prove whether an idea is true or not. Evidence matters because it allows scientists to test ideas, check facts, and make conclusions based on data instead of opinions.

When sources are trustworthy, people can believe the argument and learn accurate facts.



PART C: Build Your Argument (CER)

Claim (Your Position)

Should this GMO be used?

Evidence

List your strongest evidence.

- _____

- _____

- _____

Reasoning

Connect your evidence using science: DNA → proteins → traits → real-world impact

PART D: Prepare for the Debate

During the debate, you will get a chance to respond to what the other side says. To be ready, think ahead about their possible arguments and prepare questions or counterpoints so that you can reply clearly and confidently.

What will the other side argue?	How will you respond using science and evidence?