

Make a Scientific Research Poster

Once you are done with your experiment, you need to present your findings to others. One way that scientists communicate information is through posters, usually at conferences or poster sessions designed for people to share their current research findings. These posters are large - usually around 4 ft x 5 ft. The poster template on the next page is a simplified version of what you might put on a poster after conducting original research.

If you prefer to make a digital poster, most are made as presentation slides using programs like Microsoft PowerPoint or Google Slides.

Title/Author: Include a descriptive title that draws the reader in. Also include your name and school or program along with any supervisors who helped you.

Introduction: Explain any background information that the reader needs to be able to understand your findings. You might need to do a little more research on the topic to be able to explain what **greenhouse gases** are and how they are produced.

Methods: Describe the procedure you are performing, including your experimental setup and how you are collecting your data. Make sure to explain what equipment you are using. Be as specific as possible so that someone reading your poster could perform this experiment on their own.

Results: What happened in your experiment? Include a summary of your data. This is section where you focus on **WHAT** patterns your data show, not **WHY** your data shows patterns. You collected numerical data, so make sure your results section includes your specific numbers rather than general phrases like "went up" or "decreased" when describing observed patterns. Your graph is also part of this section. Make sure it has a title, labels for both axes that include the units of measurement used, and a key to distinguish your two data sets.

Conclusions: What does your data mean? How do your results answer your research question? This is where you move from the **WHAT** happened into the **WHY** it happened. You can start to draw conclusions here about explanations for the patterns you see in the data.



Research a Health Effect of Climate Change

Now that you have explored the causes of **climate change**, let's shift to talking about its effects on public health. In the introduction, we briefly discussed nine different categories of public health issues that are connected to **climate change**. For this second activity, you will choose one of them to explore further.

Choose one of the nine topics listed and research using CDC's website (<https://www.cdc.gov>) or other credible sites such as those ending in .gov, ones connected to universities, or trustworthy nonprofits. You will likely find a lot of information, but you must remember to focus specifically on the effects of **climate change**, not just the general topic. As you are researching, consider the following questions:

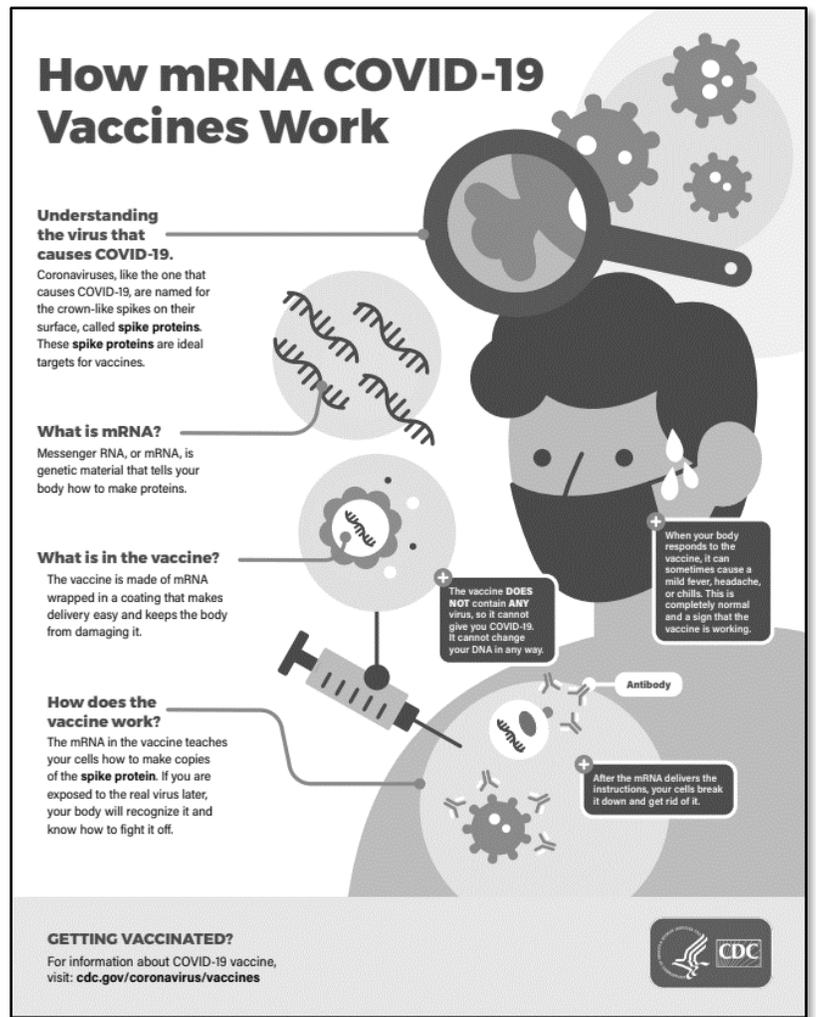
- Air pollution
- Allergens and pollen
- Diseases carried by **vectors**
- Food and **waterborne diseases**
- Food security
- Mental health and stress-related disorders
- Floods
- Temperature extremes
- Wildfires

- What are some ways that **climate change** affects your chosen health topic?
- What populations are most likely to face harms related to this topic due to **climate change**?
- How can we protect people, particularly those most vulnerable, from the health effects of **climate change** related to this topic?

Build an Infographic

Put your findings together by creating an infographic like the one pictured at right.

There are several great digital tools that can help you make excellent images. Try looking up “free infographic maker” online and explore a new tool!



Share Your Findings

For the full scientific research experience, conduct your very own poster session by explaining your poster and your infographic to family or friends. By explaining your findings to others, you deepen your own understanding and develop better communication skills.

Post your infographic on social media or share through email with others in your community. You can even ask your science teacher if you can display a copy in their classroom. You can share your research poster and infographic with the CDC Museum on Instagram using **@CDCmuseum**. The David J. Sencer CDC Museum uses award-winning exhibits and innovative programming to educate visitors about the value of public health and presents the rich heritage and vast accomplishments of CDC. Your experiments and infographic could be a valuable contribution!