

Climate Change Project

9th, 10th Grade

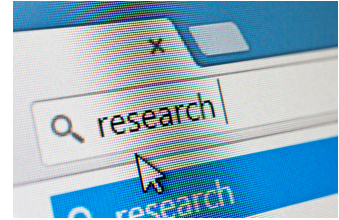
- ✓ Engaging Research Project
- ✓ Guided Research Process
- ✓ Develop Critical Thinking & Collaboration



Teach With
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Climate Change Project

✓ **Engaging Research Project** – Students investigate real-world climate change topics and develop research skills.

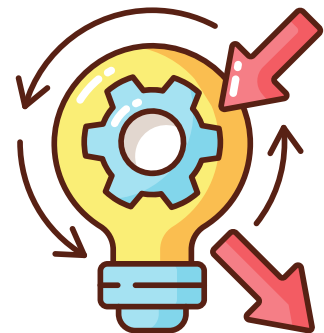


✓ **Multiple Presentation Formats** – Options include digital slideshows, poster boards, or news report videos.



✓ **Guided Research Process** – Includes structured worksheets, approved research sources, and teacher check-ins.

✓ **Critical Thinking & Collaboration** – Encourages teamwork, data analysis, and solution-based discussions.



Climate Change Project

Climate Change Project

Students will develop their research skills, apply these skills to investigate one aspect of climate change, and create a presentation to inform their classmates as well as improve their presentation skills.

DAY 1: CHOOSING OUR FOCUS

Introduction (20 mins)

- Watch brief climate overview video
<https://teachwithafairy.com/climate-overview/> or <https://www.youtube.com/watch?v=CeC8Bae5D7I>
- Introduce research topics
- Model research process
 - Show students how to research using 'The Research Process' presentation and worksheet

Research Topics (Students choose one):

1. Weather vs. Climate
2. Polar Ice & Glaciers
3. Causes and Effects
4. Extreme Weather
5. Ocean Sea Level Rise
6. The Danger for Biodiversity
7. Loss of Biodiversity
8. Deforestation
9. Drought and Flooding
10. Coral Reef Bleaching

Research Planning (20 mins)

- Form research groups
- Complete planning sheet
- Begin guided research

DAY 2: GUIDED RESEARCH

Research Guidelines

Approved Research Sources

- NASA Kids
- National Geographic
- PBS Learning Media
- EPA Student Resources
- Provided textbook
- Classroom resources

DAY 3: PRESENTATIONS

Presentation Options:

1. Digital Slideshow (5-7 slides)
2. Poster Board Display
3. News Report Video

Required Elements:

- Clear title - make sure your audience knows what your question is clearly.
- Main facts - list your main facts using bullet points.
- Visual aids - provide at least 2 visual aids such as graphs and/or pictures.
- Data representation - show your statistics using your visual aids or separately.
- Solution proposal - provide a solution to your problem or conclusive explanation.
- Sources cited - list all your sources on the last slide.

DAY 4: PRACTICE, POLISH, and PRESENT

Presentation Practice

- Practice with partners
- Peer feedback
- Teacher check-ins
- Final adjustments

Presentation

- In 5-10 minutes, present your findings to the class
- 2-minute Q&A following your presentation
- Class discussion

Guided Research

Planning Template:

Topic Choice	
Research Questions – write down three questions that relate to your topic. Circle the research question you want to answer in this project.	1. 2. 3.
Information sources – include all your sources of information – at least 3 sources.	1. 2. 3.
Group Member Roles in this project	

Research:

For your chosen research question provide the following:

3 Key facts	1. 2. 3.
2 surprising discoveries	1. 2.
1 local connection. Relate your question to something happening in your town/city/etc.	

2 supporting images

1 data point and/or statistic about your topic.

1 solution and/or action step that can be taken.

The Research Process:

How to Be a Science Detective



Google Access

Thank you for your purchase. Clicking the link button below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the 'Shared with me' section on the left side of your Drive.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

Click here to place a copy of your resources into your Google account

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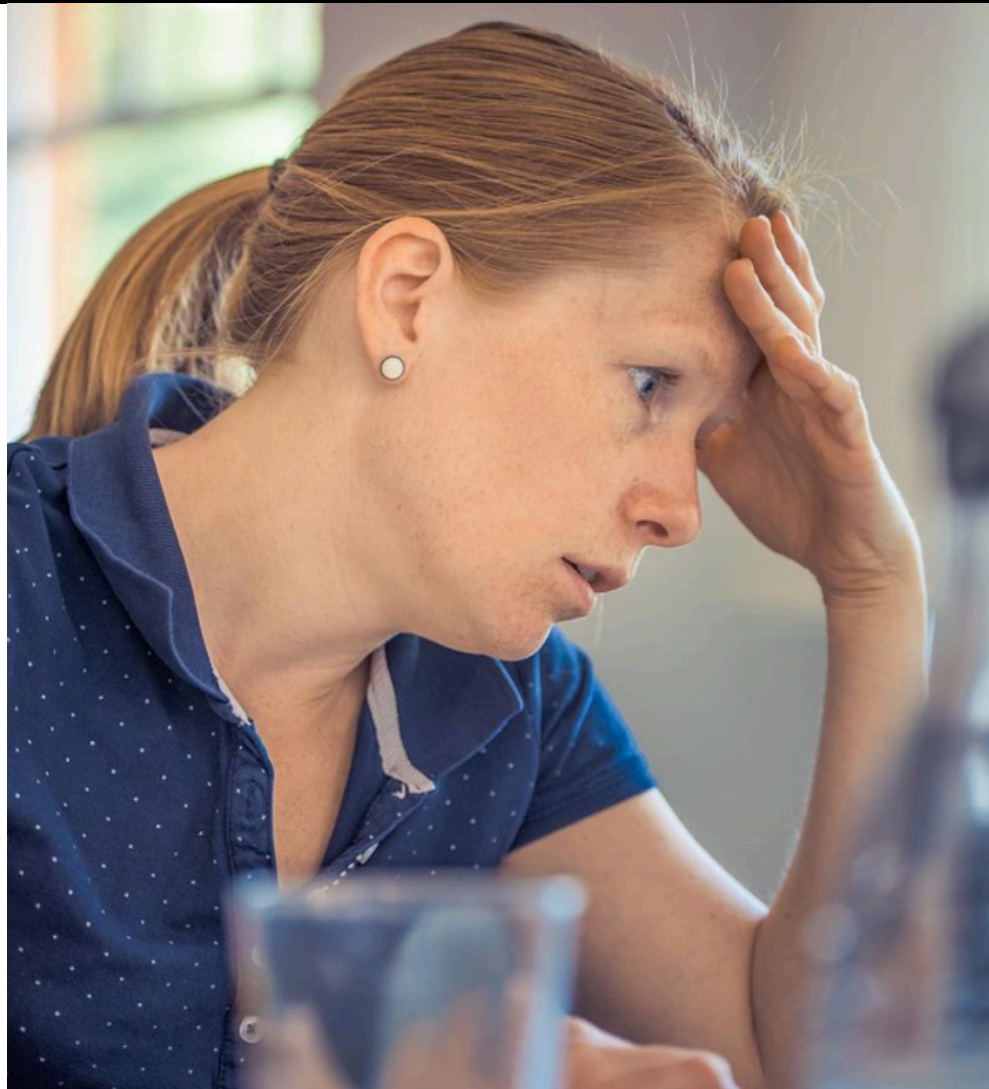
Google Classroom Ready
One-Click Google Slides Access

Who's It For?

- **High School Science Teachers**
- **Teachers using NGSS**
- **Teachers who want to increase their student's engagement and retention**
- **Teachers not looking to reinvent the wheel**

Save yourself the **STRESS AND TIME**

TW/F



Spend your time WISELY

