

Student Climate Change Competition: Project Ideas

Causes of Climate Change:

- Create an infographic or presentation explaining the main causes of climate change and their impacts.
- Design a poster campaign to raise awareness about the most significant human activities contributing to climate change.

Impacts of Climate Change:

- Produce a video showcasing local impacts of climate change on the environment, wildlife, and communities.
- Develop a storytelling project sharing personal experiences related to climate change impacts in Lowell.

History of Climate Change and Action in Lowell:

- Research and create a timeline highlighting key events and milestones in Lowell's climate change history.
- Interview local experts or community members who have been involved in past climate action initiatives.

Mitigation vs. Adaptation:

- Compare and contrast mitigation and adaptation strategies, and present your findings in an engaging way.
- Design a series of graphics illustrating examples of mitigation and adaptation projects implemented in other cities.

Electrification & Energy Efficiency:

- Create a guide for transitioning households to more energy-efficient appliances and practices.
- Develop an interactive presentation showcasing the benefits of electric vehicles and ways to promote their adoption.

Renewable Energy:

- Design a model or prototype of a renewable energy installation suitable for Lowell, such as a solar farm or wind turbine.
- Produce a podcast discussing different types of renewable energy sources and their feasibility in the region.

Green Jobs:

- Conduct interviews with local professionals working in green industries and highlight their career paths.
- Organize a virtual career fair focusing on green job opportunities in Lowell and beyond.

Green vs Gray Infrastructure:

- Create a virtual tour of green infrastructure projects in Lowell that help manage stormwater and reduce pollution.
- Build a case study comparing the effectiveness of green and gray infrastructure approaches in combating climate challenges.

Alternative Transportation:

- Develop a social media campaign promoting biking, walking, and public transportation options in Lowell.
- Design an app or interactive map that highlights alternative transportation routes and amenities.

Environmental Justice:


- Research and present on environmental justice issues in Lowell, highlighting communities disproportionately affected by climate impacts.
- Organize a panel discussion with local activists and experts on the intersection of climate change and social justice.

Urban Heat Island:

- Collect temperature data across different areas of Lowell and analyze the urban heat island effect.
- Propose and design green space projects to mitigate urban heat island effects in specific neighborhoods.

Urban Forestry:

- Create a community tree-planting initiative, including educational materials about the benefits of urban forestry.
- Design a guidebook for maintaining and caring for trees in urban environments.

 Feel free to mix and match these ideas or adapt in any way. Good luck with the competition! 