



RESOURCE

NEW JERSEY CLIMATE CHANGE STUDENT LEARNING STANDARDS

LESSON 1: RESEARCH AND SOLUTIONS

- Ask questions, make observations, and gather information about a situation people want to change (e.g. climate change) to define a simple problem that can be solved through the development of a new or improved object or tool. (K-2-ETS1-1)
- Obtain and combine information from books and other reliable media to explain phenomena. (3-ESS2-2)
- Gather information about an issue, such as climate change, and collaboratively brainstorm ways to solve the problem (e.g., K-2ETS1-1, 6.3.2.GeoGI.2)
- Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. (3-5-ETS1-1)
- Ask questions to clarify evidence of the factors that have caused climate change over the past century. (MS-ESS3-5)
- Apply deliberate and thoughtful strategies to access high-quality information on climate change. (9.4.8IML:8)
- Develop multiple solutions to a problem and evaluate short and long-term effects to determine the most plausible option. (9.4.8CT.2)
- Evaluate competing design solutions, using a systematic process to determine how well they meet the criteria and constraints of the problem. (MS-ETSI-2)

LESSON 2: ACTION PLAN

- Develop an action plan that addresses issues related to climate change and share with a school and/or community. (e.g., 6.3.5CivicsPD.1)
- Identify a problem and list the types of individuals and resources (e.g., school, community agencies, governmental, online) that can aid in solving the problem. (9.4.5CT.2)
- Use information from a variety of sources, contexts, disciplines and cultures for a specific purpose. (9.4.8 IML.7)

LESSON 3: ACT & EVALUATE

- Enlist input from a variety of stakeholders (e.g., community members, experts in the field) to design a service learning activity that addresses a local or global issue (e.g., environmental Justice). (9.4.12.CT.3)
- Plan and participate in an advocacy project to inform others about the impact of climate change at the local or state level and propose possible solutions. (e.g. 6.4.5GroHE.1)
- Collect, share, and analyze data related to global issues, including climate change. (7.1.IH.IPRET.8)
- Collect data and consider sources from multiple perspectives to become informed about environmental issues and identify possible solutions. (6.3.2Geol2)
- Describe actions peers can take to positively impact climate change. (e.g., 6.3.2. CivicsPD.1)
- Organize and present climate change data, visually to highlight relationships or support a claim. (8.1.5DA.4)

LESSON 4: SHARE, SUBMIT & CELEBRATE!

- Organize and present collected data, visually to communicate insights gained from different views of the data. (8.1.5.DA.3)
- Demonstrate originality and inventiveness in work (9.4.2.CI.2). (e.g., 1.3a.2CR1a)
- Analyze and interpret data to determine similarities and differences in findings. (MS-ETS1-3)
- Communicate solutions that will reduce the impact of climate change and humans on the land, water, air, and/or other living things in the local environment. (K-SS3-3)