



Next Gen Science Standards:

Students who demonstrate understanding can:

- HS-ESS3-5. Analyze geoscience data and the results from global climate models to make an evidence-based forecast of the current rate of global or regional climate change and associated future impacts to Earth systems.
- HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.
- HS-LS4-6. Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.

SCIENCE AND ENGINEERING

- 3. *Planning and carrying out investigations*
- 4. *Analyzing and interpreting data*
- 5. *Using mathematics and computational thinking*
- 6. *Constructing explanations and designing solutions*

DISCIPLINARY CORE IDEAS

- ESS3.D: Global Climate Change
- LS2.C: Ecosystem Dynamics, Functioning, and Resilience
- LS4.C: Adaptation

CROSS-CUTTING CONCEPTS

- 2. *Cause and Effect: Mechanism and explanation*
- 7. *Stability and change*

Instructional Objective(s):

Students will be able to:

- 1. Create a product that conveys climate change information and possible solutions.

Prerequisite Concepts and Skills:

None

Materials and Resources:

Teacher

Students

Project assignment sheet (NPS provided) Rubric (NPS provided)	Computer access
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Lesson Activities: 58 min **Depending on how deeply you would like to explore the activities of the lesson, this lesson could take anywhere between one and three 58 minute sessions for all students to have a chance to present their projects.*

Lesson Activities: 58 min

Teacher Activities	Student Activities	Time:
Introduction: 1. Distribute Assignment. 2. Take attendance.	DoNow: Quietly read through the assignment and decide what type of project you will complete.	5 min
New Content: 1. Monitor students as they work on their projects either individually or in groups.	1. Complete project paying attention to requirements and guidelines.	50 min
Wrap-up: 1. Assign the completion of the project for homework. 2. Dismiss students.	1. Prepare for dismissal.	3 min

Organizational and/or Behavioral Management Strategies:

Assessment and Evaluation:

Extensions:

Adaptations:

Teacher Reflections: