Overview
Students focus on global and local climate change solutions, using evidence gleaned from previous activities to support their predictions of the effectiveness of their proposed solutions. They come to understand that scientists and engineers are working to slow or stop climate change and to lessen the effects of climate change; people, businesses, communities, and governments can make choices that reduce their carbon footprints; and that possible solutions to climate change can involve chains of possible causes and effects.

Learning Outcomes
Students will be able to:

- Create climate change solution flowcharts, engage in discussions, and provide evidence that proposed solutions may have an impact on causes and effects of climate change.
- Describe how a solution will decrease the amount of heat-trapping gases in the atmosphere (mitigation) or prepare for inevitable increase in global temperature (adaptation).
- Reason logically about addressing the causes and lessening the effects of climate change.

NGSS Connections

- **Science and Engineering Practice**: Constructing Explanations and Designing Solutions
- **Crosscutting Concepts**: Cause and Effect, Systems and System Models

Ocean Literacy Principles

- 6.G Everyone is responsible for caring for the ocean. The ocean sustains life on Earth and humans must live in ways that sustain the ocean. Individual and collective actions are needed to effectively manage ocean resources for all.