

Regional Impacts of Climate Change

climate
kids

explorer backpack



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SCIENCE
ALLIANCE

The Regional Impacts of Climate Change Explorer Backpack contains the resources and lessons needed for educators to help students gain a better understanding of the science of climate change and its impacts to their own communities and ecosystems. The hands-on science, storytelling, and art activities in this backpack specifically focus on students from 6th through 8th grade based on Next Generation Science Standards, and can be used in either classroom or field settings. Using real data that is regionally-specific, the activities in this backpack will bring climate change science to life, help students investigate its impacts to San Diego County Ecosystems, and allow them to analyze real climate data from the 2018 San Diego County Ecosystems Assessment. Most importantly, students will work to develop their own solutions to help reduce the impacts of climate change in their communities.

overview

Grade Level: Middle School, Upper Elementary, Lower High School

Subject Areas: Science, Fine Arts, Language Arts

Duration:

- Preparation time: Part I (Science): 10 minutes; Part II (Art): 10 minutes; Part III (Storytelling): 5 minutes
- Activity time: Part I (Science): 45 min; Part II (Art): 30 min; Part III (Storytelling): 45 min

Setting: Classroom, Field Trip Site (reach out to info@climatesciencealliance for our list of recommended field trips!)

Essential Question: What does climate change look like in San Diego County, and what can we do to help?

Summary: While participating in the Climate Kids activities of art, science, and storytelling, students will gain a better understanding of climate science, data, and methodology, as well as what they can do to help.

Objectives:

Students will:

- Explore local scientific data around temperature, precipitation, wildfire, and the marine layer.

- Discuss what climate change means for people and wildlife.
- Work in groups to interpret data provided by the San Diego Ecosystems Assessment.
- Identify solutions to help wildlife and human communities adapt to changes.

what's inside

- Lesson Binder with background information, presentation slides, and talking points
- USB with digital presentation
- Scissors
- Laminated Case Study Cards
- Matching game activity
- “10 Things You Can Do to Help the Earth” fabric poster
- California Field Atlas book

You will need:

- Paper
- Colored pencils
- Markers
- Copies of Field Guide Template