

Comprehensive Resource Guide for Students and Teachers

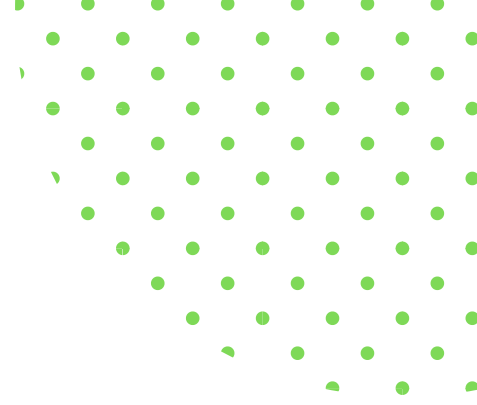
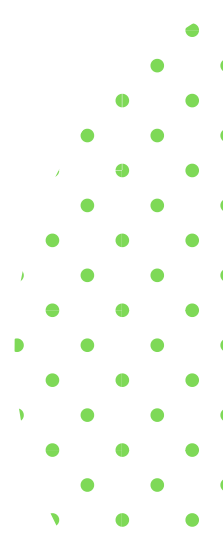


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In this guide you will find resources that DIG has compiled for you to use for both in the classroom and at home.

How to use: Each resource has an icon with a link embedded in it. When you click on the icon it will take you to the resource

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Videos

Climate Change/Global Warming



NOVA: Climate Change

This video segment adapted from NOVA describes climate data.



NOVA: Antarctic Ice: Sea Level Change

Students learn what might happen to the global sea level.



NOVA: Global Ocean Circulation

Students will learn how the ocean and the atmosphere are closely connected.



NOVA: Decoding the Weather Machine

In this two-hour documentary, NOVA will cut through the confusion around climate change.



NOVA: Extreme Ice

In this video students learn about the historical record of climate changes captured in ice.



A History of Earth's Climate

This video takes a look at the history of climate change on Earth.



What If All The Ice Melted On Earth?

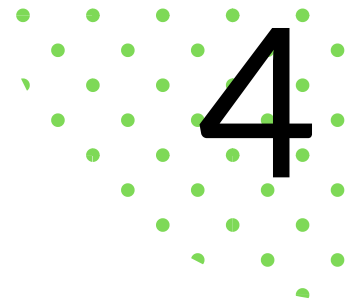
This video examines what would happen if all the ice melted on Earth.



Understanding the Climate Clock

This short video explains how human activity has broken the climate clock.

Online Activities and Resources



Environmental Science

This resource, more for young adults than children, is a guide to learning how to chart a course to become an environmental scientist.



Flying WILD

Flying WILD offers a whole-school approach to environmental education using birds as the focus.



Energy Kids

The site includes a variety of information and activities for kids to learn how to save energy.



Environmental Education (EE) Guidelines

The Environmental Education (EE) Guidelines were produced by the North American Association for Environmental Education (NAAEE) with support from EPA.



Recycle City

A great way for kids to learn the basics of recycling.



Children of the Earth

This site promotes a greater understanding and respect for animals, plants, water, soil, air and energy systems.



Learning and Teaching about the Environment

This site provides K-12 students and educators access to quality homework resources and lesson plans.



The Environmental Education and Training Partnership (EETAP)

This site offers educators resources, and links for promoting academic achievement and environmental literacy.



High Adventure Science

This collection helps students examine contemporary questions in Earth science, using computer models and real-world data.



NOVA

The NOVA collection on PBS LearningMedia contains over 1500 resources that educators can use in their lessons to spark and enrich student knowledge of STEM.



The World's Largest Lesson

World's Largest Lesson brings the UN Sustainable Development Goals to children all over the world and unites them in taking action.



Drawdown Learn

Drawdown Learn is a broad initiative to encourage education and learning about climate solutions based on Project Drawdown's research, analysis, and insights.

Climate Change/Global Warming Classroom Resources

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Climate Change: How Do We Know?

Evidence for climate change



CLEAN

CLEAN's primary effort is to steward the collection of climate and energy science educational resources.



Alliance for Climate Education

Interactive climate education resource that brings climate change and solutions to life.



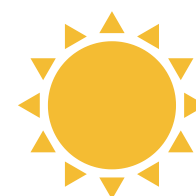
Climate Change Education Collection

Get the facts on climate change with a selection of NatGeo's best articles and activities



Causes of Global Warming

An overview of the causes of global warming.



Effects of Global Warming

An overview of the effects of global warming.



7 things to know about climate change

7 facts about climate change you need to know.



Earth in Peril

In this interactive, world maps reveal the human footprint on Earth.



Climate 101

Introduction to the science of climate change.



Living with Climate Change

In this GeoStory, you will explore how people are confronting the challenges of climate change



Act on Climate

Use this page to find out more about climate change and how to inspire your students to act through service learning.



Changing Climate

A guide for teaching climate change

For Students: Climate Change



What is Climate Change?

Easy to digest guide to climate change for kids.



Climate Kids

Videos, games, and activities for kids about climate change from NASA.



Climate Basics for Kids

Information and resources for students about the science behind climate change.

Additional Videos

Energy



NOVA: A Never-Ending Supply

In this video from NOVA's Energy Lab, students learn about renewable energy sources and renewable energy technologies.



NOVA: Carbon-Fiber Car of the Future

In this video hear physicist and energy expert Amory Lovins explain how to make more efficient cars by making them lighter and more aerodynamic.



NOVA: Growing Appetites, Limited Resources

In this video from NOVA's Energy Lab, students learn about the growing demand for energy.

General Science



NOVA: Full Collection of Videos

In this video collection, you'll find twenty NOVA full-length episodes recommended for classroom use.

Downloadable Resources



Surrounded by Science

Use this collection of lesson plans to help students discover more of the science going on around them, in and out of the classroom.



Greening STEM Toolkit

Use this educator toolkit to find free resources for teaching STEM using environmental education.



Math and the Environment

In this toolkit, you'll find resources to help you bridge the gap between mathematics and the natural world.



Engineering Toolkit

These lessons teach real-world applications of skills students may not associate with engineering.

Documentaries



DOCUSEEK

The Sustainability Collection is a selection of documentaries for academic streaming covering the depth and breadth of the sustainability movement.



Bullfrog Films

Bullfrog Films has become the leading US publisher of independently-produced documentaries on environmental and related social justice issues.

Current Events/ Articles



ScienceDaily

Your source for the latest climate change research news.



PBS: NOVA

A collection of science-backed sources for information about global warming.



Climate Solutions

An expansive collection of nation-wide climate change and clean energy news articles.



Citizen Scientist Project

These articles on climate are community based, specific to South Florida and surrounding environment.



NASA: Climate Change and Global Warming

Current news and data streams about global warming and climate change from NASA.

TED Talks



Greening Schools One Student at a Time

Nick Gunia, Founder and Chair of Dream in Green, explains his journey from the corporate dream to his "dream in green"



Climate change: Oh, it's real.

Playlist of TED Talks about climate change.