Comprehensive Resource Guide for Students and Teachers
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.
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 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

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.

**Engineering Toolkit**

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

**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.

## 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

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<thead>
<tr>
<th>Source</th>
<th>Description</th>
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<tbody>
<tr>
<td>ScienceDaily</td>
<td>Your source for the latest climate change research news.</td>
</tr>
<tr>
<td>PBS: NOVA</td>
<td>A collection of science-backed sources for information about global warming.</td>
</tr>
<tr>
<td>Climate Solutions</td>
<td>An expansive collection of nation-wide climate change and clean energy news articles.</td>
</tr>
<tr>
<td>Citizen Scientist Project</td>
<td>These articles on climate are community based, specific to South Florida and surrounding environment.</td>
</tr>
<tr>
<td>NASA: Climate Change and Global Warming</td>
<td>Current news and data streams about global warming and climate change from NASA.</td>
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## TED Talks

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<thead>
<tr>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>Greening Schools One Student at a Time</td>
<td>Nick Gunia, Founder and Chair of Dream in Green, explains his journey from the corporate dream to his &quot;dream in green&quot;</td>
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<tr>
<td>Climate change: Oh, it's real.</td>
<td>Playlist of TED Talks about climate change.</td>
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