

Climate Change Bundle

6th, 7th, 8th Grade

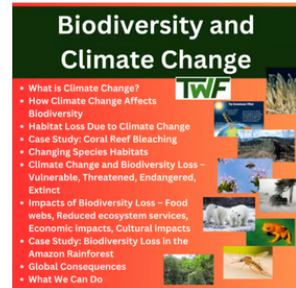
- ✓ Comprehensive Climate Change Bundle –Lessons, hands-on activities, and assessments
- ✓ Interactive & Digital Ready
- ✓ Assessments - Climate Change Project, Case Studies, Exit Tickets, Readings, and more



Climate Change Bundle

What's Included:

- Climate Change Lesson & Climate Change and Biodiversity Lesson
- 7 Case Studies
- Climate Change Project
- Bell Ringer, Class Warm-Up, and Exit Ticket Activity
- Crossword Puzzle and Word Search Activity
- Speed Quizzing Activity
- Digital Interactive Notebook
- Digital Scavenger Hunt
- Grade 8 and Up Reading
- Grade 5-7 Reading
- Lab Station Activity



Climate Change Word Search and Scramble

THREE Activities in One!

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity



Lessons Include Teacher & Student Versions - Videos Embedded in Lessons

Climate Change and Global Warming

MIDDLE SCHOOL – EARTH SCIENCE

- Climate Change vs. Global Warming
- Weather vs. Climate
- Earth's Climate System
- The Ozone Layer
- The Greenhouse Effect
- Greenhouse Gases
- Greenhouse Gas Emissions
- Global Warming and the Carbon Cycle
- Carbon Sinks
- Effects of Global Warming
- Historical Climate Change
- Solutions to Climate Change



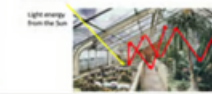
The Greenhouse Effect

- The heat is mainly created by the plants inside the greenhouse
- The plants absorb the light energy and give off infrared (heat) radiation which can't pass through the glass



The Greenhouse Effect

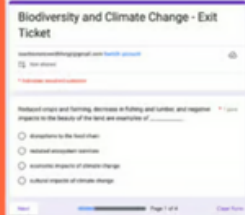
- The heat is mainly created by the plants inside the greenhouse
- The plants absorb the light energy and give off infrared (heat) radiation which can't pass through the glass
- The infrared radiation bounces around and heats the greenhouse



Student and Teacher versions of the presentations

Case Study: Coral Reef Bleaching

- When water is too warm, corals get rid of the algae living in them causing the coral to turn completely white
- Coral bleaching is happening because of climate change (warmer waters) and is very serious



4-Question, Autograded Exit Ticket

Videos embedded directly in your slides



Biodiversity and Climate Change

- What is Climate Change?
- How Climate Change Affects Biodiversity
- Habitat Loss Due to Climate Change
- Case Study: Coral Reef Bleaching
- Changing Species Habitats
- Climate Change and Biodiversity Loss – Vulnerable, Threatened, Endangered, Extinct
- Impacts of Biodiversity Loss – Food webs, Reduced ecosystem services, Economic impacts, Cultural impacts
- Case Study: Biodiversity Loss in the Amazon Rainforest
- Global Consequences
- What We Can Do



Google Access

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Google Classroom Ready
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Effects of Global Warming

The impacts of climate change are predicted to be serious and widespread:

- **More violent weather**
- **Increases in global temperatures → melting glaciers, increase in sea levels, flooding**
- **Ecosystems → Creating unsuitable habitats (melting ice and polar bears)**
- **Shifting patterns of rainfall and drought**



Videos embedded directly into the slides. One-click access

Engaging Activities & Assessments

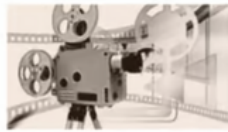


Climate Change Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Climate Change Bell Ringers, Class Warm-Ups, and Exit Tickets



Climate Change
Provide 3 potential impacts of climate change.



Climate Change
1. Explain to someone who has not been familiar with the concept, the connection between CO₂ and climate change.
2. How do humans affect the carbon cycle?

Speed Quizzing

What is climate?

The average of weather in a region over a long period of time.

True/False: Most air in the atmosphere is N₂ and O₂.

True

A fast-moving review activity where students quiz each other, swap cards, then move on to someone new.

Climate Change and Global Warming Unit

Device-Based Scavenger Hunt Climate Change



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

100% Digital

Simulations
Quizzes
Videos
Games
Word Scramble
and more



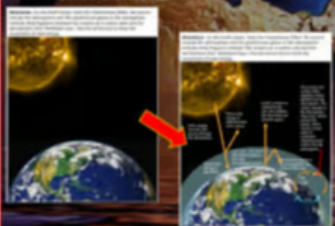
Climate Change Digital Interactive Notebook

Activity 1: Weather vs. Climate

Activity 2: Bill Nye Video

Activity 3: Earth's Climate System

100% Digital and Interactive



Activity 4: Greenhouse Effect Diagram

Activity 5: Report!

Activity 6: Effects of Climate Change

Climate Change Crossword Puzzle

- 15 - Term Crossword
- Includes 2 Versions
 - Version 1 - No Word Bank
 - Version 2 - Includes a Word Bank



Climate Change Word Search and Scramble

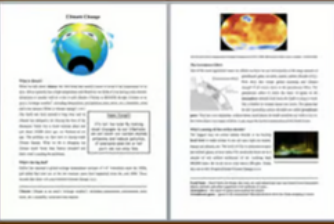
THREE Activities in One!

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Readings & Case Studies

Climate Change
Scientific Reading
Comprehension Article and
Extension Activity – **Grades 5-7**



Improve your skills, use as an extension activity

Case Study – Green Sea Turtles and Climate Change



TWF

Case Study - The Arctic Fox and Climate Change



TWF

Climate Change
Scientific Reading
Comprehension Article



Improve your skills, use as an extension activity

Case Study – African Elephants and Climate Change

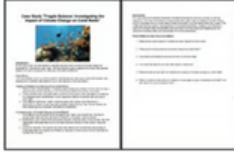


Case Study – Polar Bears and Climate Change



TWF

Case Study
"Fragile Balance: Investigating the Impact of Climate Change on Coral Reefs"



Improve your students' Scientific Literacy and Critical Thinking Skills. Use as an extension activity in your classroom.

Case Study – Koalas and Climate Change



TWF

Case Study – The Adélie Penguin and Climate Change



TWF

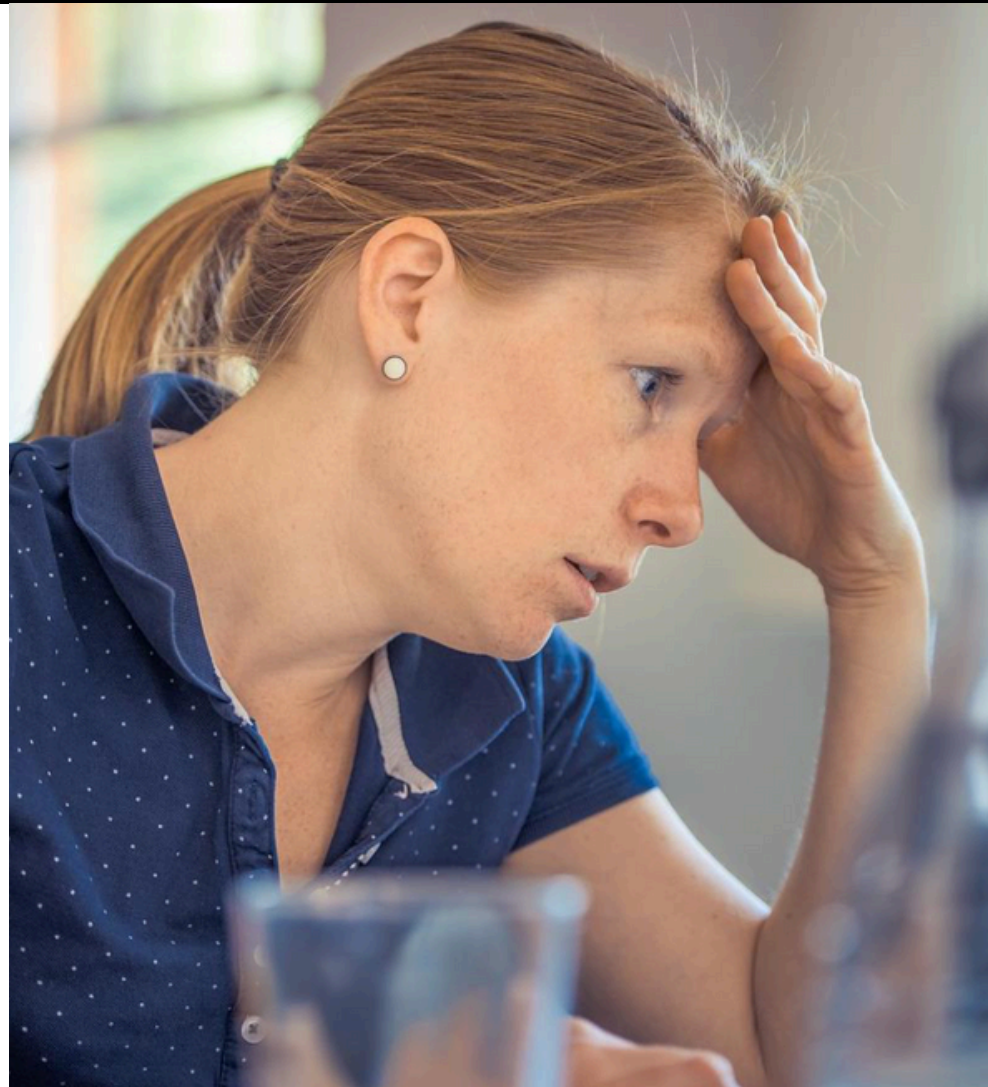
Who's It For?

- **Middle School Science Teachers**
- **Teachers using NGSS**
- **Teachers who want to increase their student's engagement and retention**
- **Teachers not looking to reinvent the wheel**



Save yourself the **STRESS AND TIME**

TW/F



Spend your time WISELY



TWF