

Lesson Plan: Climate Change Impacts in Cook Islands

As a **High School** or introductory **Undergraduate** teacher, you can use this lesson plan to **introduce climate change and its impacts in Cook Islands**.

This lesson plan provides an introduction to climate change, causes and impacts of climate change globally, climate change risk profile for Cook Islands that includes climate impacts on major sectors of the country such as water resources, human health, coastal resources, fishery and tourism & infrastructure.

Thus, the use of this lesson plan allows you to teach Climate Science and Climate Change in your classrooms.

Use this Lesson Plan to help the students to understand and find answers to:

1. What is Climate Change? What are its causes?
2. What are the impacts of climate change on Cook Islands?
3. What are the impacts of climate change on water resources, human health, coastal resources, fishery and tourism & infrastructure in Cook Islands?
4. What mitigation practices can be adopted to control the impacts of climate change in Cook Islands?

About the Lesson Plan

Grade Level	High School, Undergraduate
Climate Topic	Climate Change Impacts in Your Country
Location	Oceania, Cook Islands
Access	Online
Language(s)	English
Approximate Time Required	60 mins

Contents

1.	Reading (15 min) and Video (5-15 min)	A reading from the NASA Global Climate Change website that includes information about what is the scientific evidence for climate change, causes, and impacts of climate change. This can be accessed here . Optional: A set of 7 short video micro-lectures (2-5 minutes in length) on climate change and global warming developed by the National Research Council, The National Academies of Sciences, Engineering, and Medicine. This can be accessed here
2	Reading 1 (World Bank)	A reading by Climate Change Knowledge Portal of the World Bank that explains climate change and impacts in Cook Islands. This can be accessed here .
3	Classroom/Laboratory Activity (15 min)	A classroom/laboratory activity based on a reading and video on Cook Islands. This reading and video explains the causes and impacts of Cook Islands on Cook Islands and also states the possible solutions to counter the crisis. The reading can be accessed here .

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		The video can be accessed here .

Step-by-step User Guide

(Here is a step-by-step guide to using this lesson plan in the classroom/laboratory. We have suggested these steps as a possible plan of action. You may customize the lesson plan according to your preferences and requirements.)

1	Introduce Climate Change through the readings and videos	This reading titled, “The Causes of Climate Change” from the NASA Global Climate Change website, provides introductory information on climate change and global warming. It contains information on the scientific evidence of climate change, its causes and impacts. This can be accessed here . Optional: This set of 7 short video micro-lectures (2-5 minutes in length) have been developed by the National Research Council, The National Academies of Sciences, Engineering, and Medicine. This can be used to provide additional information on climate change. They include: <ol style="list-style-type: none"> 1. What is Climate? Climate Change, Lines of Evidence Chapter 1 2. Is Earth Warming? Climate Change, Lines of Evidence Chapter 2 3. Greenhouse Gasses. Climate Change, Lines of Evidence Chapter 3 4. Increased Emissions. Climate Change, Lines of Evidence Chapter 4 5. How Much Warming? Climate Change, Lines of Evidence Chapter 5 6. Solar Influence. Climate Change, Lines of Evidence Chapter 6 7. Natural Cycles. Climate Change, Lines of Evidence Chapter 7 This video playlist can be accessed here .
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2	Discuss causes and impacts of Climate Change in Cook Islands	<p>Use this interactive website by the Climate Change Knowledge Portal of the World Bank to have your students understand the impacts of Climate Change in Cook Islands. This resource includes the following:</p> <ol style="list-style-type: none"> I. Climate Change Overview of Cook Islands II. Country Summary III. Current Climatology: Climate Trends and Variability in Temperatures and Precipitation IV. Climate Projections V. Vulnerability of Cook Islands to Climate Change <p>Each section contains relevant climate change information including data, projections, and visualizations. The data is visualized through interactive graphs and users can select different indices, model projections, timescales, and sectors to better understand the impacts of climate change in Cook Islands.</p> <p>This can be accessed here.</p>
3	OPTIONAL Classroom/Laboratory Activity on the 'Lake Chad Crisis'	<p>You may wish to conduct a {roleplay} activity in your classroom/laboratory to further engage your students in understanding the climate crisis in Cook Islands; specifically on the impact of climate change on food security and water security in Cook Islands.</p>

Learning Outcomes:

The tools in this lesson plan will enable students to:

- learn about climate change and global warming
- understand the impacts of climate change in Cook Islands
- discuss how changing weather patterns due to climate change could affect Cook Islands's future
- describe the current and future economic impacts on Cook Islands due to climate change

Additional Resources

1	Reading	<p>Intended Nationally Determined Contribution, Cook Islands: This report provided by UNFCCC is a submission of commitment towards mitigating Climate Change by Cook Islands.</p>
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Credits / Copyrights:

1	Reading "The Causes of Climate Change"	by the NASA Global Climate Change website
2	A set of videos; "Climate Change: Lines of Evidence"	Presented by National Research Council, The National Academies of Sciences, Engineering, and Medicine
3	Reading "Climate Change Risk Profile for Cook Islands"	By Climate Change Knowledge Portal of the World Bank

4	Additional Resources	Intended Nationally Determined Contribution, Cook Islands
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