# Lesson Plan: Climate Change Impacts in Switzerland

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

This lesson plan provides an introduction to climate change, causes and impacts of climate change globally, climate change risk profile for Switzerland that includes climate impacts on major sectors of the country such as agriculture, livestock, water resources, human health, industries and tourism.

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 Switzerland?
- 3. What are the impacts of climate change on agriculture, livestock, water resources, human health, industries and tourism in Switzerland?
- 4. What mitigation practices can be adopted to control the impacts of climate change in Switzerland?

### About the Lesson Plan

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

### Contents

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 <u>here</u> .	
	<b>Optional</b> : 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 <u>here</u>	
Reading 1 (World Bank)	A reading by Climate Change Knowledge Portal of the World Bank that explains climate change and impacts in Switzerland. This can be accessed here.	
Classroom /Labo	A classroom/laboratory activity based on a reading and video on Switzerland.	
ratory Activity (15 min)	This reading and video explains the causes and impacts of Switzerland on Switzerland and also states the possible solutions to counter the crisis.	
	The reading can be accessed here.	

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2	Reading 1	A reading by Climate Change Knowledge Portal of the World Bank that explains	
	(World Bank)	climate change and impacts in Switzerland.	
		This can be accessed <u>here</u> .	
		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 <u>here</u> .	
		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.	
		<ol> <li>They include:         <ol> <li>What is Climate? Climate Change, Lines of Evidence Chapter 1</li> <li>Is Earth Warming? Climate Change, Lines of Evidence Chapter 2</li> <li>Greenhouse Gasses. Climate Change, Lines of Evidence Chapter 3</li> <li>Increased Emissions. Climate Change, Lines of Evidence Chapter 4</li> <li>How Much Warming? Climate Change, Lines of Evidence Chapter 5</li> <li>Solar Influence. Climate Change, Lines of Evidence Chapter 6</li> <li>Natural Cycles. Climate Change, Lines of Evidence Chapter 7</li> </ol> </li> </ol>	
		This video playlist can be accessed <u>here</u> .	

2	Discuss causes and impacts of Climate Change in Switzerland	<ul> <li>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 Switzerland. This resource includes the following: <ol> <li>Climate Change Overview of Switzerland</li> <li>Country Summary</li> <li>Current Climatology: Climate Trends and Variability in Temperatures and Precipitation</li> <li>Climate Projections</li> <li>V. Vulnerability of Switzerland to Climate Change</li> </ol> </li> <li>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 Switzerland.</li> </ul>
3	OPTIONAL Classroom/Laboratory Activity on the 'Lake Chad Crisis'	You may wish to conduct a {roleplay} activity in your classroom/laboratory to further engage your students in understanding the climate crisis in Switzerland; specifically on the impact of climate change on food security and water security in Switzerland.

# 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 Switzerland
- discuss how changing weather patterns due to climate change could affect Switzerland's future
- describe the current and future health risks and economic impacts on Switzerland due to climate change

# Additional Resources

1         Reading         Intended Nationally Determined Contribution, Switzer           report provided by UNFCCC is a submission of commitmitigating Climate Change by Switzerland.	
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## Credits / Copyrights:

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

4 Additional Reso	Additional Resources	Intended Nationally Determined Contribution,
		Switzerland