

## Lesson Plan: Climate Change Impacts in Burkina Faso

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

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

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 Burkina Faso?
3. What are the impacts of climate change on agriculture, livestock water resources, human health, ecosystems and fisheries in Burkina Faso?
4. What mitigation practices can be adopted to control the impacts of climate change in Burkina Faso?

### About the Lesson Plan

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

### Contents

1.	<b>Reading</b> (15 min) and <b>Video</b> (5-15 min)	<p>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 <a href="#">here</a>.</p> <p><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 <a href="#">here</a></p>
2.	<b>Reading 1 (World Bank)</b>	<p>A reading by Climate Change Knowledge Portal of the World Bank that explains climate change and impacts in Burkina Faso.</p> <p>This can be accessed <a href="#">here</a>.</p>
3	<b>Reading 2 (USAID)</b>	<p>This reading is the Climate Change Risk Profile fact sheet for West Africa Sahel by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners USAID.</p> <p>This can be accessed <a href="#">here</a>.</p>
4	<b>Classroom/Laboratory Activity</b> (15 min)	<p>A classroom/laboratory activity based on a reading and video on Burkina Faso. This reading and video explains the causes and impacts of Burkina Faso on Burkina Faso and also states the possible solutions to counter the crisis.</p> <p>The reading can be accessed <a href="#">here</a>. The video can be accessed <a href="#">here</a>.</p>

### 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	<p>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.</p> <p>This can be accessed <a href="#">here</a>.</p> <p>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.</p> <p>They include:</p> <ol style="list-style-type: none"> <li>1. What is Climate? Climate Change, Lines of Evidence Chapter 1</li> <li>2. Is Earth Warming? Climate Change, Lines of Evidence Chapter 2</li> <li>3. Greenhouse Gasses. Climate Change, Lines of Evidence Chapter 3</li> <li>4. Increased Emissions. Climate Change, Lines of Evidence Chapter 4</li> <li>5. How Much Warming? Climate Change, Lines of Evidence Chapter 5</li> <li>6. Solar Influence. Climate Change, Lines of Evidence Chapter 6</li> <li>7. Natural Cycles. Climate Change, Lines of Evidence Chapter 7</li> </ol> <p>This video playlist can be accessed <a href="#">here</a>.</p>
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2	Discuss causes and impacts of Climate Change in Burkina Faso	<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 Burkina Faso. This resource includes the following:</p> <ol style="list-style-type: none"> <li>I. Climate Change Overview of Burkina Faso</li> <li>II. Country Summary</li> <li>III. Current Climatology: Climate Trends and Variability in Temperatures and Precipitation</li> <li>IV. Climate Projections</li> <li>V. Vulnerability of Burkina Faso to Climate Change</li> </ol> <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 Burkina Faso.</p> <p>This can be accessed <a href="#">here</a>.</p>
3	Further understanding on impacts of Climate Change on key sectors in Burkina Faso	<p>You may wish to have your students explore climate change and its risks in West Africa Sahel in more detail through a resource from climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID.</p> <p>This factsheet on climate risks in West Africa Sahel includes information on:</p> <ol style="list-style-type: none"> <li>I. Current and future climate impacts and vulnerabilities in West Africa Sahel.</li> <li>II. Climate impacts on key sectors of: <ol style="list-style-type: none"> <li>1) Agriculture</li> <li>2) Livestock</li> <li>3) Water Resources</li> <li>4) Human Health</li> <li>5) Ecosystems</li> <li>6) Fisheries</li> </ol> </li> </ol> <p>This can be accessed <a href="#">here</a>.</p>
4	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 Burkina Faso; specifically on the impact of climate change on food security and water security in Burkina Faso.</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 Burkina Faso
- discuss how changing weather patterns due to climate change could affect future of Burkina Faso
- describe the current and future health risks and economic impacts on Burkina Faso due to climate change

## Additional Resources

1.	Reading	<a href="#">Climate Risk Country Profile for Burkina Faso</a> : This reading by Climate Change Knowledge Portal of World Bank explains in detail the Climatology, Climate related Natural Hazards & Impacts and Policies and Programs in Burkina Faso.
2	Reading	<a href="#">West Africa Greenhouse Gas Emissions Fact Sheet</a> : This fact sheet for West Africa by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID, provides information on greenhouse gas emissions (GHG) by sector, changes in emissions, information on carbon intensity, as well as climate change mitigation targets and plans.
3	Reading	<a href="#">Climate Risks in Food for Peace Geographies- Burkina Faso</a> : This fact sheet by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID, gives information about impacts of Climate Change on food security in Burkina Faso.
4	Reading	<a href="#">Climate Vulnerabilities and Development in Burkina Faso and Niger</a> : This technical report by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID, outlines the economic, social, and ecological information in Burkina Faso and Niger, and through this lens assesses valued assets and services which are at risk, existing efforts and remaining gaps, and recommendations to increase climate resilience.
5	Reading	<a href="#">Intended Nationally Determined Contribution, Burkina Faso</a> : This report provided by UNFCCC is a submission of commitment towards mitigating Climate Change by Burkina Faso.

## Credits / Copyrights:

1	Reading “The Causes of Climate Change”	by the <a href="#">NASA Global Climate Change</a> website
2	A set of videos; “Climate Change: Lines of Evidence”	Presented by National Research Council, <a href="#">The National Academies of Sciences, Engineering, and Medicine</a>
3	Reading “Climate Change Risk Profile for Burkina Faso”	By <a href="#">Climate Change Knowledge Portal of the World Bank</a>
4	Reading “Climate Change Risk Profile for Burkina Faso”	By <a href="#">Climatelinks</a> : A Global Knowledge Portal for Climate and Development Practitioners, USAID
	Additional Resources	<a href="#">Climate Risk Country Profile for Burkina Faso</a>  <a href="#">West Africa Greenhouse Gas Emissions Fact Sheet</a>

		<p><a href="#"><u>Climate Risks in Food for Peace Geographies- Burkina Faso</u></a></p> <p><a href="#"><u>Climate Vulnerabilities and Development in Burkina Faso and Niger</u></a></p> <p><a href="#"><u>Intended Nationally Determined Contribution, Burkina Faso</u></a></p>
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