Lesson Plan: Climate Change Impacts in Zimbabwe

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

This lesson plan provides an introduction to climate change, causes and impacts of climate change globally, climate change risk profile for Zimbabwe that includes climate impacts on major sectors of the country such as agriculture, livestock, water resources, human health, forestry. This lesson plan also includes the current and future health risks in Zimbabwe due to climate change.

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 Zimbabwe?
- 3. What are the impacts of climate change on precipitation, water resources and occupations & economy in Zimbabwe?
- 4. How does climate change impact public health in Zimbabwe?
- 5. What mitigation practices can be adopted to control the impacts of climate change in Zimbabwe?

About the Lesson Plan

Grade Level	High School, Undergraduate
Climate Topic	Climate Change Impacts in Your Country
Location	Africa, Zimbabwe.
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> . 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 <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 Zimbabwe.	
	This can be accessed <u>here</u> .	
Reading 2 (USAID)	This reading is the Climate Change Risk Profile fact sheet for Zimbabwe by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners USAID.	
	This can be accessed <u>here</u> .	
Classroom/Lab oratory Activity (15 min)	A classroom/laboratory activity based on a reading and video on Zimbabwe. This reading and video explains the causes and impacts of {} on {} and also states the possible solutions to counter the crisis.	
	The reading can be accessed here. 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.	
		 They include: What is Climate? Climate Change, Lines of Evidence Chapter 1 Is Earth Warming? Climate Change, Lines of Evidence Chapter 2 Greenhouse Gasses. Climate Change, Lines of Evidence Chapter 3 Increased Emissions. Climate Change, Lines of Evidence Chapter 4 How Much Warming? Climate Change, Lines of Evidence Chapter 5 Solar Influence. Climate Change, Lines of Evidence Chapter 6 Natural Cycles. Climate Change, Lines of Evidence Chapter 7 	
		This video playlist can be accessed <u>here</u> .	

		Use this interactive website by the Climate Change Knowledge Portal of the		
2	Discuss causes and	World Bank to have your students understand the impacts of Climate		
	impacts of Climate	Change in Zimbabwe. This resource includes the following:		
	Change in Zimbabwe.	I. Climate Change Overview of Zimbabwe.		
		II. Country Summary		
		III. Current Climatology: Climate Trends and Variability in		
		Temperatures and Precipitation		
		IV. Climate Projections		
		V. Vulnerability of Zimbabwe to Climate Change		
		v. vulnerability of Zimbabwe to Chinate Change		
		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 Zimbabwe.		
		This can be accessed <u>here</u> .		
		You may wish to have your students explore climate change and its risks in Zimbabwe in more detail through a resource from climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID.		
3	Further understanding on impacts of Climate Change on key sectors in Zimbabwe.	Zimbabwe in more detail through a resource from climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the		
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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 Zimbabwe.
- discuss how changing weather patterns due to climate change could affect Zimbabwe's future
- describe the current and future health risks and economic impacts on Zimbabwe due to climate change

Additional Resources

1.	Reading	<u>Climate Risk Country Profile for Zimbabwe</u> : 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 Zimbabwe.
2.	Reading	Zimbabwe Greenhouse Gas Emissions Fact Sheet: This fact sheet by Climatelinks: A Global Knowledge Portal for Climate and Development Practitioners of the USAID, gives information about change in GHG Emissions in Zimbabwe (1990-2011), GHG Emissions Relative to GDP and Mitigation Targets.
3	Reading	Intended Nationally Determined Contribution, Zimbabwe: This report provided by UNFCCC is a submission of commitment towards mitigating Climate Change by Zimbabwe.

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 Zimbabwe"	By <u>Climate Change Knowledge Portal of the</u> <u>World Bank</u>
4	Reading "Climate Change Risk Profile for Uzbekistan"	By <u>Climatelinks</u> : A Global Knowledge Portal for Climate and Development Practitioners, USAID
	Additional Resources	Climate Risk Country Profile for Zimbabwe
		Zimbabwe Greenhouse Gas Emissions Fact Sheet
		Intended Nationally Determined Contribution, Zimbabwe