Lesson Plan: Climate Change Impacts in Mauritania

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

This lesson plan provides an introduction to climate change, causes and impacts of climate change globally, climate change risk profile for Mauritania 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 Mauritania?
- 3. What are the impacts of climate change on agriculture, livestock water resources, human health, ecosystems and fisheries in Mauritania?
- 4. What mitigation practices can be adopted to control the impacts of climate change in Mauritania?

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

About the Lesson Plan

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	A reading by Climate Change Knowledge Portal of the World Bank that explains	
	(World Bank)	climate change and impacts in Mauritania.	
		This can be accounted have	
		This can be accessed <u>here</u> .	
3	Reading 2	This reading is the Climate Change Risk Profile fact sheet for West Africa Sahel	
	(USAID)	by Climatelinks: A Global Knowledge Portal for Climate and Development	
		Practitioners USAID.	
		This can be accessed <u>here</u> .	
4	Classroom/Lab	A classroom/laboratory activity based on a reading and video on Mauritania.	
	oratory Activity		
	(15 min)	Mauritania 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 Mauritania. This resource includes the following:		
	Change in Mauritania	I. Climate Change Overview of Mauritania		
		II. Country Summary		
		5 5		
		III. Current Climatology: Climate Trends and Variability in		
		Temperatures and Precipitation		
		IV. Climate Projections		
		V. Vulnerability of Mauritania to Climate 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 Mauritania.		
		This can be accessed <u>here</u> .		
•	Further understanding	You may wish to have your students explore climate change and its risks in		
3	on impacts of Climate	West Africa Sahel in more detail through a resource from climatelinks: A		
	Change on key sectors	Global Knowledge Portal for Climate and Development Practitioners of the		
	in Mauritania	USAID.		
		This factsheet on climate risks in West Africa Sahel includes information on:		
		I. Current and future climate impacts and vulnerabilities in West		
		Africa Sahel.		
		II. Climate impacts on key sectors of: 1) Agriculture		
		2) Livestock		
		3) Water Resources		
		4) Human Health		
		5) Ecosystems		
		6) Fisheries		
		This are he accounted here		
		This can be accessed <u>here</u> .		
4	OPTIONAL	You may wish to conduct a {roleplay} activity in your classroom/laboratory		
	Classroom/Laboratory	to further engage your students in understanding the climate crisis in		
	Activity on the 'Lake	Mauritania; specifically on the impact of climate change on food security		
	Chad Crisis'	and water security in Mauritania.		

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 Mauritania
- discuss how changing weather patterns due to climate change could affect future of Mauritania
- describe the current and future health risks and economic impacts on Mauritania due to climate change

Additional Resources

1	Reading	Mauritania 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 Mauritania (1990-2014), GHG Emissions Relative to GDP and Mitigation Targets.	
4	Reading	Intended Nationally Determined Contribution, Mauritania: This report provided by UNFCCC is a submission of commitment towards mitigating Climate Change by Mauritania.	

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