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IB DP IB1 Geography class of 2022 (IB1)



Summary

Paper 2 - 2.1 Global climate—vulnerability and resilience

Subject Start date Duration Year Geography IB1 Week 3, February 4 weeks

Course Part

Causes of global climate change

Description

The atmospheric system, including the natural greenhouse effect and energy balance (incoming shortwave radiation and outgoing longwave radiation. Changes in the global energy balance, and the role of feedback loops, resulting from:

- ·solar radiation variations, including global dimming due to volcanic eruptions
- •terrestrial albedo changes and feedback loops
- ·methane gas release and feedback loops The enhanced greenhouse effect and international variations in greenhouse gas sources and emissions, in relation to economic development, globalization and trade Synthesis, evaluation and skills opportunities The complexity of the dynamic climate system and the spatial interactions of different processes and feedback mechanisms

Curriculum



Encourage the systematic and critical study of: human experience and behaviour; physical, economic and social environments; and the history and development of social and cultural institutions

Objectives

Demonstrate knowledge and understanding of specified content

demonstrate knowledge and understanding of the core theme - global change

Demonstrate synthesis and evaluation

examine and evaluate geographic concepts, theories and perceptions

Syllabus Content

Part two: Geographic perspectives - global change (SL and HL core)

Unit 2: Global climate - vulnerability and resilience

1. Causes of global climate change

How natural and human processes affect the global energy balance

The atmospheric system, including the natural greenhouse effect and energy balance (incoming shortwave radiation

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and outgoing longwave radiation)

Changes in the global energy balance, and the role of feedback loops, resulting from: solar radiation variations, including global dimming due to volcanic eruptions; terrestrial albedo changes and feedback loops; methane gas release and feedback loops

The enhanced greenhouse effect and international variations in greenhouse gas sources and emissions, in relation to economic development, globalization and trade

The complexity of the dynamic climate system and the spatial interactions of different processes and feedback mechanisms



ATL Skills



Approaches to Learning



Thinking

- In this unit, we will

reward a new personal understanding, solution or approach to an issue ask open questions



Developing IB Learners





Knowledgeable



Thinkers