

Unit 8: Weather and Climate

Lesson Plan

Disciplinary Core Areas	Weather and Climate; Natural Hazards
NGSS:	<ul style="list-style-type: none"> • MS-ESS2-5 Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions. • MS-ESS2-6 Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. • MS-ESS3-1 Construct a scientific explanation based on evidence for how the uneven distributions of Earth’s mineral, energy, and groundwater resources are the result of past and current geosciences processes.
Lesson Title	Climate Change and Its Effects
Lesson Number	8-10
Learning objectives:	<ul style="list-style-type: none"> • Define climate change • Describe the climate change that took place during the glacial and interglacial periods • Explain the causes and effects of climate change • Discuss ways on how to mitigate the effects of climate change
“I can” statements:	<ul style="list-style-type: none"> • I can define climate change • I can describe the climate change that took place during the glacial and interglacial periods • I can explain the causes and effects of climate change • I can discuss ways on how to mitigate the effects of climate change
Prior Knowledge:	Hydrosphere, Atmosphere, Water Cycle, Weather Elements, Weather Patterns, Cloud Formation, Climate, Biomes, Ocean Currents
Vocabulary:	Climate change, Emissions, Glacial period, Global average temperature, Global warming, Greenhouse effect, Industrial Revolution, Interglacial period, Mitigation, Sea-level rise
Summary of Activities:	<ol style="list-style-type: none"> 1. Distribute and complete bell ringer activity. 2. Discuss guided notes and slideshow, with students. 3. Do the laboratory activity with students. 4. Exit quiz
Additional Resources:	<ul style="list-style-type: none"> • See online activities

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Homework:

- Assignment

Assessment:

- Bell work
- Assignment
- Exit quiz
- End of unit review