



Edmore Public School
706 Main St, Edmore, ND 58330

**Earth Science Lesson Plans for
November 28 – December 2, 2022
6th hour, 1:37 – 2:29 PM**

| | Monday (Nov 28) | Tuesday (Nov 29) | Wednesday (Nov 30) | Thursday (Dec 1) | Friday (Dec 2) |
|--|--|--|--|--|--|
| Performance Standards | <p>MS-ESS2-5 Collect data to provide evidence for how the motions and complex interaction of air masses resulting the changes in weather conditions</p> <p>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.</p> | <p>MS-ESS2-5 Collect data to provide evidence for how the motions and complex interaction of air masses resulting the changes in weather conditions</p> <p>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.</p> | <p>MS-ESS2-5 Collect data to provide evidence for how the motions and complex interaction of air masses resulting the changes in weather conditions</p> <p>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.</p> | <p>MS-ESS2-5 Collect data to provide evidence for how the motions and complex interaction of air masses resulting the changes in weather conditions</p> <p>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.</p> | <p>MS-ESS2-5 Collect data to provide evidence for how the motions and complex interaction of air masses resulting the changes in weather conditions</p> <p>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.</p> |
| Topic | <p>Unit 3: Weather and Climate Unit Introduction <i>Take it Further</i></p> | <p>Unit 3: Weather and Climate Lesson 3: Influences on Climate <i>Exploration 1: Describing Climate</i></p> | <p>Unit 3: Weather and Climate Lesson 3: Influences on Climate <i>Exploration 2: Describing How sunlight Affects Climate</i></p> | <p>Unit 3: Weather and Climate Lesson 3: Influences on Climate <i>Exploration 3: Explaining what influences Climate</i></p> | <p>Unit 3: Weather and Climate Lesson 3: Influences on Climate <i>Exploration 4: Using regional climate models</i></p> |
| Objectives | <ul style="list-style-type: none"> • review for the lesson quiz | <ul style="list-style-type: none"> • use model to represent weather and climate and to understand how climate can be described in a graph of the average temperature and precipitation of a region per month | <ul style="list-style-type: none"> • explore how sunlight powers Earth's climate system by developing and using models of the sun and Earth interacting at different latitudes • examining how different surface types influence the interactions between objects and the sun | <ul style="list-style-type: none"> • examine system models to analyze how factors such as prevailing winds, the ocean, landforms, altitude, and surface types of influence the weather and climate | <ul style="list-style-type: none"> • use a model of Earth's major climate zones and Earth's regional climate zones to synthesize the understanding of factors such as elevation, sunlight, latitude, ocean currents., geography, and prevailing winds |
| Bellringer | (3 min) stationary front | (3 min) occluded front | (3 min) climate | (3 min) latitude | (3 min) vocab quiz |
| Procedure/ Instructional Delivery | <ul style="list-style-type: none"> ○ Take it further ○ CER: evidence ○ Checkpoints | <ul style="list-style-type: none"> ○ Lesson quiz ○ CER: claims ○ Direct instruction: Climate | <ul style="list-style-type: none"> ○ Analyzing picture: Earth's energy balance | <ul style="list-style-type: none"> ○ Introduction: factors that influences climate | <ul style="list-style-type: none"> ○ Hands-on Lab: Model your climate |

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|-------------------|----------------------|--|---|---|-----------|
| | o Interactive Review | o Student activity: Analyze climate graphs | o Activity: sunlight and latitude o Reading: Albedos of Earth's surface materials o CER: evidence | o Student activity: Exploring Factors affecting climate o CER: evidence o Close: compare climates | |
| Assessment | Review worksheet | Lesson quiz | worksheet | worksheet | Lab paper |
| Remarks | | | | | |

Prepared by:

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