

Edmore Public School
706 Main St, Edmore, ND 58330

Earth Science Lesson Plan

Dates:

October 30 - November 3, 2023

Time and Period:

9:35 - 10:27 AM, Second Period

Performance Standard:

MS-ESS2-4

Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.

MS-ESS2-5

Use 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.

Monday, October 30

Topic	Completion of Laboratory Work Use of Models: Air Temperature with Cricket Chirps
Objectives	Use a mathematical model to calculate temperatures and solve a real-world problem.
Bell Ringer	Describe the graph by recognizing the main patterns, trends, or relationships they show.
Procedure / Instructional Delivery	Interactive Discussion, Simulation, Guided Practice, Hands-on / Lab Activity
Assessment	Laboratory Work, 103 - 107 Use of Models: Air Temperature with Cricket Chirps

Tuesday, October 31

Topic	Weather Forecast Models, pp. 108 - 110
Objectives	Explore why weather can be predicted to a certain degree of probability.
Bell Ringer	Define the <i>weather forecast</i> .

Procedure / Instructional Delivery	Interactive Discussion, Simulation, Guided Practice, Hands-on / Lab Activity
Assessment	Mathematical Models, pp. 103 - 106

Wednesday, November 1	
Topic	Limitations of Weather Forecast Models, pp. 110 - 112 Review for Quiz
Objectives	Explain why weather forecasts are useful even if it does not predict exactly what will happen.
Bell Ringer	Compare the forecast charts with what actually happened with the weather in Amarillo (see page 111).
Procedure / Instructional Delivery	Interactive Discussion, Simulation, Guided Practice, Hands-on / Lab Activity
Assessment	Limitations of Weather Forecast Models, pp. 110 - 112 Checkpoints, pp. 116 and 117

Thursday, November 2	
Topic	Quiz: Weather Prediction Influence on Climate, pp. 118 - 120
Objectives	Explore factors that influence climate.
Bell Ringer	Define <i>climate</i> .
Procedure / Instructional Delivery	Interactive Discussion, Simulation, Guided Practice, Hands-on / Lab Activity
Assessment	Quiz Influence on Climate, pp. 118 - 120

Friday, November 3	
Topic	Describing How Sunlight Affects Climate, pp. 120 - 123
Objectives	Develop a model of sunlight hitting earth at different angles using a flashlight and a piece of paper.
Bell Ringer	Define <i>latitude</i> .
Procedure / Instructional Delivery	Interactive Discussion, Simulation, Guided Practice, Hands-on / Lab Activity

Assessment

Describing How Sunlight Affects Climate, pp. 120 - 123