Edmore Public School 706 Main St, Edmore, ND 58330

Earth Science Lesson Plan	
Dates:	Time and Period:
August 28 - September 1, 2023	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-ESS2-6

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, August 28	
Торіс	Circulation in Earth's Atmosphere (pp. 4-6 of Module E)
Objectives	Describe how the atmosphere influences weather and climate.
Bell Ringer	Define <i>atmospheric circulation</i> .
Procedure / Instructional Delivery	 Discussion Why it matters pp. 2 Hands-On Activity: Lab Activity no. 1 Warm Air Rises
Assessment	Lab Activity no. 1 Worksheet and Exit Ticket

Tuesday, August 29	
Topic	Formation of Wind (pp. 6-8 of Module E)
Objectives	Develop a model to learn more about the effects of differences in air pressure.
Bell Ringer	Define <i>air pressure</i> .
Procedure / Instructional Delivery	 Discussion Hands-on Activity: Model the Formation of Wind
Assessment	Lab Activity no. 2 Worksheet pp. 7-8 and Exit Ticket

Wednesday, August 30	
Торіс	Convection (pp. 9 and 10 of Module E)
Objectives	Describe how wind direction in the atmosphere influences weather conditions.
Bell Ringer	What is the difference between conduction and convection ?
Procedure / Instructional Delivery	 Discussion Engineer it: Heat and Cooling System
Assessment	 Engineer It no. 5 pp. 9 Discussion Questions nos. 6-10 pp. 10 Exit Ticket

Thursday, August 31	
Торіс	The Effect of Earth's Rotation (pp. 11 and 12 of Module E)
Objectives	Describe how the rotation of Earth affects patterns of atmospheric wind circulation.
Bell Ringer	Define <i>coriolis effect</i> .
Procedure / Instructional Delivery	 Discussion, Hands-on Activity: Modelling the Effects of Earth's Rotation on Matter in the Atmosphere Write-Pair-Share using the Convection Cells Diagram (Laptops ON).
Assessment	Exit Ticket: Write-Pair-Share and Worksheet pp. 11 and 12

Friday, September 1	
Topic	Global Winds (pp. 13 and 14 of Module E)
Objectives	Examine how global winds in the atmosphere, and the pressure associated with them, affect weather in different parts of the world.
Bell Ringer	What are <i>global winds</i> and <i>pressure belts</i> ?
Procedure / Instructional Delivery	 Discussion Write-Pair-Share and/or Foldable Comparing and contrasting the different types of global winds and

	pressure belts using the Model of Global Winds Diagram (Laptops ON).
Assessment	Exit Ticket and Worksheet pp. 13 and 14