

Edmore Public School
706 Main St, Edmore, ND 58330

Earth Science Lesson Plan

Dates:
September 11 - 15, 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-ESS2-6

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, September 11

Topic	Circulation in Earth's Oceans pp. 24-27
Objectives	Use a model of ocean circulation to explain the factors that influence the movement of ocean water
Bell Ringer	What are <i>ocean currents</i> ?
Procedure / Instructional Delivery	<ul style="list-style-type: none"> ● Discussion ● Use of Maps and Simulations ● Analysis of Models
Assessment	Exit Ticket and Worksheet pp. 24-27

Tuesday September 12

Topic	Factors that Affect Surface Currents pp. 28 and 29
Objectives	Use a model to study patterns of oceanic circulation in surface currents.
Bell Ringer	Define <i>continental deflection</i> .
Procedure / Instructional Delivery	<ul style="list-style-type: none"> ● Discussion ● Use of Maps and Simulations ● Analysis of Models
Assessment	Modelling Deep Currents, pp. 30 Exit Ticket and Worksheet pp. 29

Wednesday, September 13	
Topic	Review: Factors that Affect Surface Currents Densities in Water pp. 30 - 33
Objectives	Analyze ways in which variations in temperature and salinity work together to drive the movement of water throughout the oceans.
Bell Ringer	Define <i>density</i> .
Procedure / Instructional Delivery	<ul style="list-style-type: none"> ● Discussion ● Use of Maps and Simulations ● Laboratory Activity
Assessment	Densities in Water Worksheet, pp. 31-32 Checkpoint, pp. 44

Thursday, September 14	
Topic	The Formation of Deep Ocean Currents pp. 34 and 35
Objectives	Use models to represent energy and matter flowing within systems to describe deep-ocean currents.
Bell Ringer	What are two factors that affect deep currents?
Procedure / Instructional Delivery	<ul style="list-style-type: none"> ● Discussion ● Use of Models and Simulations ● Engineer It
Assessment	Formation of Deep Ocean Currents Worksheet, pp. 34 and 35 Checkpoint, pp. 45

Friday, September 15	
Topic	Quiz no. 2 and Relating Circulation to Flow of Matter and Energy
Objectives	Explore the flow of energy and matter in the Earth system.
Bell Ringer	What makes up the earth's subsystems?
Procedure / Instructional Delivery	<ul style="list-style-type: none"> ● Discussion ● Use of Maps and Simulations ● Use of Models
Assessment	Formation of Deep Ocean Currents Worksheet, pp. 36 and 37 Quiz no. 2