

Global Weather Patterns Guided Notes

Directions: Preview the notes before reading the lesson. As you read the lesson, fill in the guided notes.

1. Warming the Earth

Talk Like a Scientist: Record any key terms and definitions that are unfamiliar to you.

Key Term(s)	Definition(s)

2. Global Wind Patterns

Focus Question: What factors impact global wind patterns on Earth?

- Describe why the wind blows north in the Northern Hemisphere and south in the Southern Hemisphere.
- What causes the Coriolis effect?
- List three factors responsible for creating wind cells.

3. Jet Streams

Focus Question: What are jet streams and how do they affect weather?

- What is a jet stream?

Complete the table to describe how jet streams can affect local weather.

Weather Data	Description
Temperature	
Air Pressure	
Wind Speed and Direction	
Humidity and Precipitation	

4. Ocean Currents

Focus Question: How do ocean currents affect weather and climate?

- What is an ocean current?

Complete the table to describe how ocean currents can affect local weather.

Weather Data	Description
Temperature	
Air Pressure	
Wind Speed and Direction	
Humidity and Precipitation	

5. El Niño and La Niña

Focus Question: What are El Niño and La Niña, and how do they impact weather?

List features/characteristics and effects of El Niño and La Niña in the table.

El Niño	La Niña
Feature/characteristics	Feature/characteristics
Effects	Effects

6. Jet Streams, Ocean Currents, and Local Weather

Focus Question: How can jet streams and ocean currents affect local weather?

- Describe how the Gulf Stream can affect weather on the East Coast of the United States.
- Describe how a shift in the Jet Stream can affect weather across North America.

7. Summary and Assessment

Re-read/review your notes. Use facts and ideas from this lesson to write one sentence or phrase beginning with each letter of the word “weather.” One example is done for you.

W

El Niño is a global weather pattern in which surface water is warmer.

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