

Name: _____

C l i m a t e N O T E S OBJECTIVES

Correctly define: abundant, climate, deforestation, depleted, evapotranspiration, greenhouse effect, orographic effect, ozone

CLIMATE:

- Give examples of at least five factors that affect climate.
- Explain specifically how each factor affects climate.
- Identify which wavelength of energy is received from the sun in the greatest intensity.
- Explain what gases are responsible for absorbing ultraviolet and infrared energy.
- Explain why the ozone layer is important.
- Explain the Greenhouse Effect.
- Give three examples of Global Climate Change---ice ages, el niño/la niña, and global warming.

Vocabulary

Abundant: _____

Climate: _____

Deforestation: _____

Depleted: _____

Evapotranspiration: _____


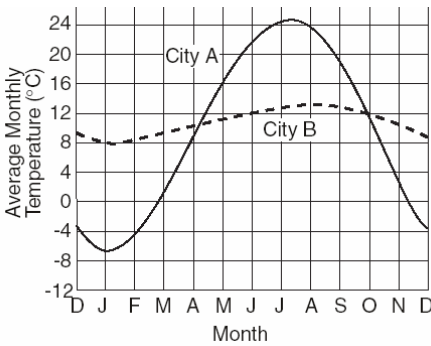
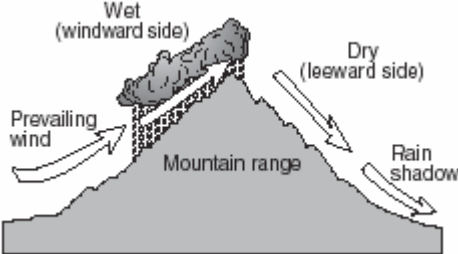

Greenhouse Effect: _____

Orographic Effect: _____

Ozone: _____

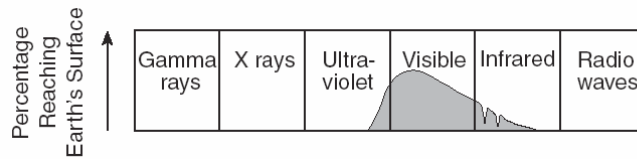
Key Concepts & Questions

Identify five factors that affect climate and explain how each affects climate.

FACTOR	HOW CLIMATE IS AFFECTED
	
	<p style="text-align: center;">Cities A & B are located at the same latitude.</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="526 751 954 1094">  </div> <div data-bbox="1062 667 1468 848"> <p>Water _____ the temperature.</p> <p>_____ Summers</p> <p>_____ Winters</p> </div> </div>
	<div style="display: flex; justify-content: space-between;"> <div data-bbox="516 1146 971 1398">  </div> <div data-bbox="990 1163 1500 1276"> <p>Windward: _____</p> <p>Leeward: _____</p> </div> </div>
	

Sun's Energy & Climate

According to the graph below, what wavelength of energy does the Earth receive in the greatest intensity?



Name the primary gas which absorbs ultraviolet energy (UV) from the sun. _____

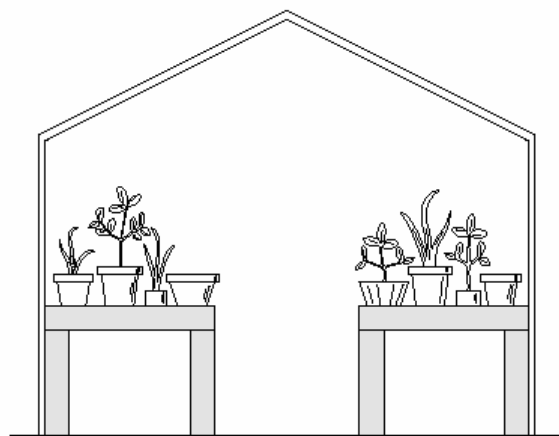
Name the three primary gases which absorb infrared energy (IR).

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Why is the ozone layer important?

Why is it warmer on a cloudy night than on a clear night?

Explain the greenhouse effect. Include a diagram which shows the change in wavelength.

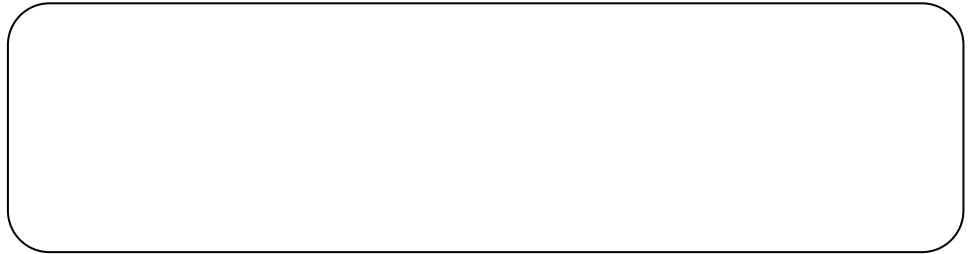
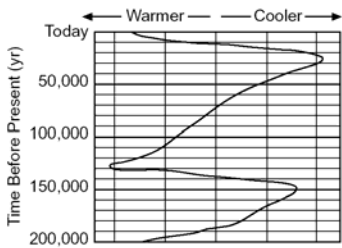


Greenhouse

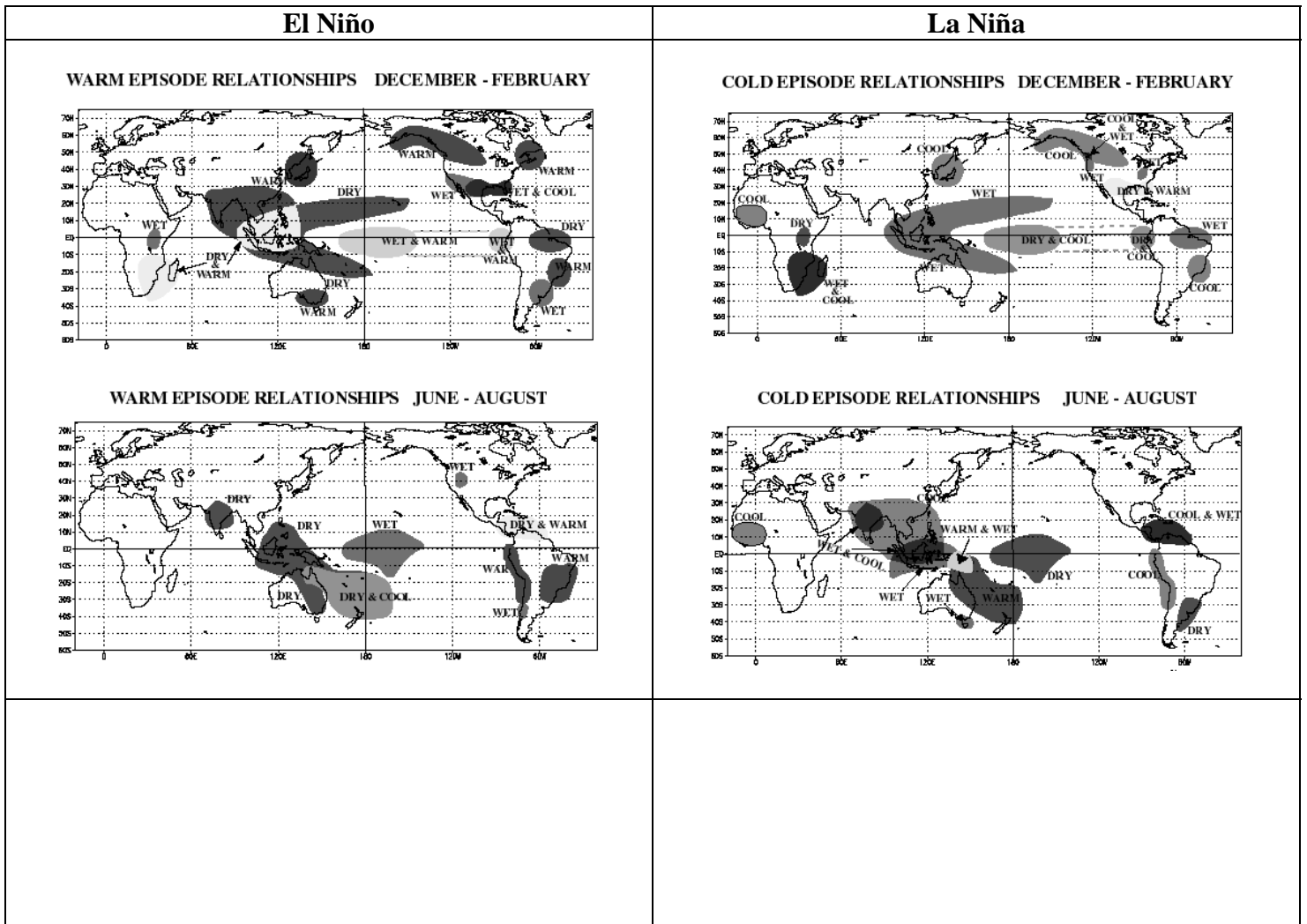
Climate

Global Climate Change

1. Ice Ages



2. El Niño and La Niña



3. Global Warming