

Climate



What is climate and how does it impact life on Earth?

Before You Read

Before you read the chapter, think about what you know about climate. In the first column, record three things you already know about climate. In the second column, write down three things you would like to learn about climate. When you have completed the chapter, think about what you have learned and complete the **What I Learned** column.

| K What I Know | W What I want to Learn | L What I Learned |
|--------------------------------|---|-----------------------------------|
| | | |

Chapter Vocabulary

| Lesson 1 | Lesson 2 | Lesson 3 |
|--|--|--|
| <p>NEW climate rain shadow specific heat microclimate</p> <p>REVIEW precipitation</p> | <p>NEW ice age interglacial El Niño/Southern Oscillation monsoon drought</p> <p>ACADEMIC phenomenon</p> | <p>NEW global warming greenhouse gas deforestation global climate model</p> |

Lesson 1 Climates of Earth

Scan Lesson 1. Record three questions you have about Earth's climates in your Science Journal. Try to answer your questions as you read.

Main Idea

What is climate?

I found this on page _____.

What affects climate?

I found this on page _____.


I found this on page _____.

I found this on page _____.

Details

 **Define** climate.

Climate: _____


 **Identify** 4 factors that determine a region's climate.

1. _____

2. _____

3. _____

4. _____

 **Describe** how latitude affects climate in different regions on Earth.

Polar regions: _____

Locations near the equator: _____

Middle latitudes: _____

Compare how altitude and latitude influence temperature.

| Altitude | Latitude |
|--|--|
| As altitude increases, temperature _____ | As latitude increases, temperature _____ |

Lesson 1 | Climates of Earth (continued)

Main Idea

I found this on page _____.

Large Bodies of Water

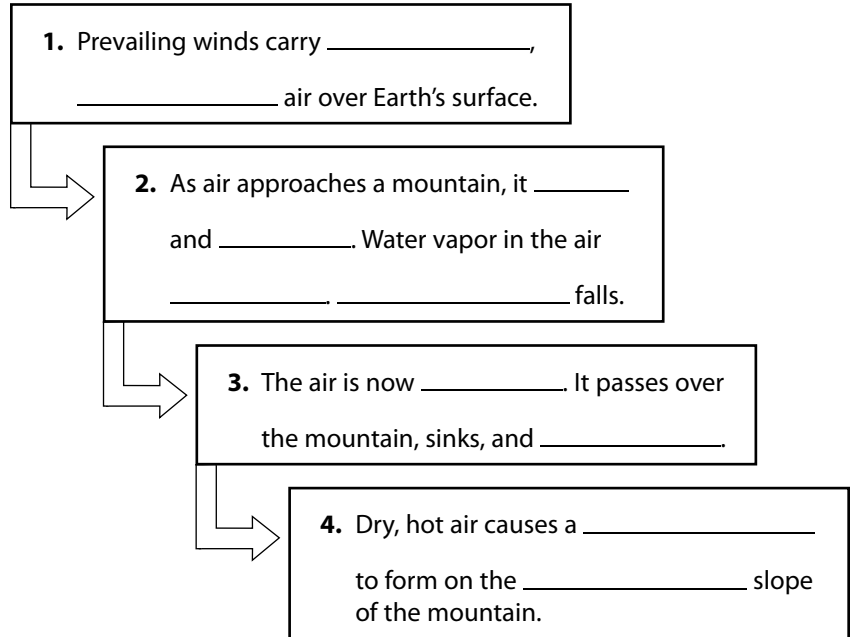
I found this on page _____.

Classifying Climates

I found this on page _____.

Details


Sequence the events that result in a rain shadow.



Define specific heat, and then explain how the specific heat of water can influence the climate of an area.

Specific heat: _____

Explanation: _____

 **Define** microclimate, and identify three microclimates.

Microclimate: _____

1. _____

2. _____

3. _____

Lesson 1 | Climates of Earth (continued)

Main Idea

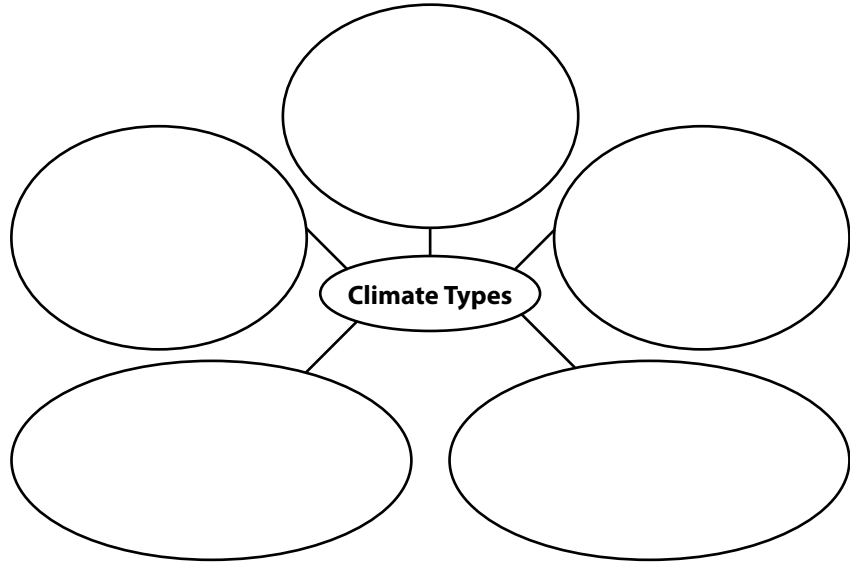
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I found this on page _____.

Details

 **Identify and describe** *Koppen's 5 climate types.*



Explain *two ways that climate can affect people.*

Agriculture: _____


Architecture: _____

Analyze *how climate affects each of the following organisms.*

Polar bears: _____

Desert plants and animals: _____

Deciduous trees: _____

 **Connect It** *Classify the climate in your area, and give reasons for your classification.*

