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Chapter 17 The Atmosphere: Structure and Temperature

Section 17.3 Temperature Controls

This section describes the factors that influence temperature and discusses worldwide temperature distribution.

Reading Strategy

Previewing Before you read, use Figure 15 to describe the temperature variations for Vancouver and Winnipeg. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Temperature Variations			
Vancouver			
Winnipeg			

Why Temperatures Vary

1. List five factors other than latitude that exert a strong influence on temperature.

Match each location with its effect on temperature. You may use some effects more than once.

Location

- **2.** windward of a large body of water
- _____ **3.** at a low altitude
- _____ 4. on a leeward coast
- _____ 5. behind a mountain range
- _____ **6.** at a high altitude

Effect on Temperature

- a. lower temperatures
- b. higher temperatures
- c. more moderate temperatures
- d. less moderate temperatures
- 7. Circle the letter of the sentence that is true.
 - a. Land heats more rapidly and cools more slowly than water.
 - b. Land heats more rapidly and cools more rapidly than water.
 - c. Land heats more slowly and cools more slowly than water.
 - d. Land heats more slowly and cools more rapidly than water.

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Chapter 17 The Atmosphere: Structure and Temperature

WordWise

Complete the sentences by using the scrambled vocabulary terms below.

oureenhgse cefetf	tinrwe etolssic	thae
stohopperre	msrtheiso	psorseheme
gsirnp oenuixq	lauaumtn nexuiqo	nzoeo
mtehrosperhe	rremeauettp	nsatecrigt
msmeur sscotile	oonuncctdi	elodba
oraiiatnd	pssratorhtee	vococentin
The	is the bottom layer of the att	mosphere.
Many clouds reflect a l	ot of sunlight because they have	e a high
Temperatures decrease	e in the third layer of the atmosp	here, the
The	contains only a tiny fraction of the atmosphere's mass.	
The	is the first day of summer.	
In the Northern Hemis	sphere, the	occurs on September 22 or 23.
i	is a form of oxygen with three or	xygen atoms in each molecule.
Solar energy reaches E	arth by	
March 21 or 22 is the _	in the Nort	hern Hemisphere.
	is the energy transferred from or	ne object to another
due to a difference in t	neir temperatures.	
The average kinetic en	ergy of the atoms or molecules i	n a substance is its
The ozone layer is four	nd in the	
When you touch a hot	metal spoon, you experience he	at transferred by
The lines on a world is	othermal map are called	·
Water being heated in	a pan circulates because of	
Light reaches areas tha	t are not in direct light by mean	s of
Winter begins on the _		
Thefor living things.	keeps Earth warm enough t	o be a suitable habitat