Name	Class	Date
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Chapter 19 Air Pressure and Wind

Section 19.1 Atmosphere Characteristics

This section explains what air pressure is and how it is measured. It also describes the factors that cause and control wind.

Reading Strategy

As you read, write the main ideas for each topic in the table. 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.

Topic	Main Ideas
Air Pressure Defined	Air pressure is the weight of air above. It is
	exerted in all directions.
Measuring Air Pressure	a.
Factors Affecting Wind	b.

Air Pressure Defined

- **1.** Air pressure is the pressure exerted by the ______ of air above a certain point.
- 2. Why doesn't the weight of air above a table crush it? _____
- **3.** Is the following sentence true or false? Average air pressure is about the same as that produced by a column of water 10 m high. _____

Measuring Air Pressure

- 4. Circle the letter of the instrument used to measure air pressure.
 - a. thermometer
 - b. barometer
 - c. anemometer
 - d. aneroidometer

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Naı	me	Cla	ss	Date		
Cha	apter 19 Air Pre	ssure and Wind				
5.		essure increases, the m		pe of a		
6.		sentence true or false? lleo.		rometer was		
7.		iges of the aneroid barter.				
Fa	ctors Affecti	ng Wind				
8.	Wind is caus	ed by horizontal diffe	rences in	·		
9.	Is the following sentence true or false? Pressure differences that cause wind are generated by unequal heating of Earth's surface.					
10.). Show What three factors combine to control wind?					
11.	→ How are isol	oars related to pressur	e gradients?			
12.		oriolis effect, winds in he		emisphere		
13.	3. Is the following sentence true or false? The Coriolis effect occurs because Earth rotates underneath the path of moving objects					
14.	4. How does friction affect wind?					
15.	that travel from	are high-altitud west to east.	e fast-moving riv	vers of air		
16.	Complete the tal	ole below.				
		Factors That Aff	ect Wind			
	Factor	Ultimate Cause	Effect on Wind			
		unequal heating of Farth's				

Factors That Affect Wind					
Factor	Ultimate Cause	Effect on Wind			
Pressure Differences	unequal heating of Earth's surface by the sun				
Coriolis Effect					
Friction					