]	NameClass	S	Date	
	Skills Worksheet			
	Directed Booding	14.3	(ODV)	

	ction: Atmospheric Circulation In what pattern does air near Earth's surface generally flow?
2.	What causes the movement of air worldwide?
3.	Where do high-pressure regions form?
4.	Where do low-pressure regions form?
TH	IE CORIOLIS EFFECT
	 5. The circulation of the atmosphere and the oceans is affected by a. the rotation of Earth at the equator. b. the rotation of Earth on its axis. c. the rotation of the moon on its axis. d. seasonal storms.
6	5. Do points near the equator or points near the poles travel farther and faster in a day? Explain your answer.

ame	Class Date
Directed Read	ing continued
Sil Colod I (Cad	ing commuca
Why does air	r follow a curved path?
3	
	
3. The curving	of the path of a moving object from an otherwise straight path d
to Farth's ro	tation is called the
objects?	nines the path along which the Coriolis effect deflects moving
·	
1 TT 1 4	le annual of an abject valete to the Compalie officet?
1. How does u	he speed of an object relate to the Coriolis effect?
	·
2. How do the Coriolis eff	mass and travel distances of air and ocean currents relate to the ect?
,	
•	·
3. In general,	on which types of objects is the Coriolis effect detectable?

Name_		Class	D	ate	
-	ected Reading continued				· ·
GLOE	BAL WINDS				
•	_ 14. What are the three lood called? a. wind belts b. convection cells c. prevailing winds d. global air flow	ping patte	rns of air flow in o	each hemispho	ere
	a. flow in one main d b. flow from the south c. flow from the north d. flow in all direction	irection. hwest. heast.	prevailing winds	that	
	16. The prevailing winds the equator in both he a. trade winds. b. polar easterlies. c. wind belts. d. westerlies.	that blow misphere	from east to west s are called the	from 30° lati	tude to
	17. In the Northern Hem a. southeast. b. south. c. northeast. d. northwest.		r.		
. —	a. the northeast b. the southeast c. the north d. the southwest	do trade	winds flow in the	Southern Hen	nisphere?
	19. The prevailing wind contiguous United States a. trade winds. b. doldrums. c. polar easterlies. d. westerlies.	Is that blo States are	w from west to ea	st through the	;

Name_	Clas	ss Date			
Dire	cted Reading continued	·			
	20. What are the prevailing wind and 90° in both hemispheres a. the westerlies b. the polar easterlies c. wind belts d. the trade winds	ds that blow from east to west between 60° s?			
	21. A stormy region created who the westerlies is called a a. trade wind. b. doldrum. c. front. d. wind belt.	ere the polar easterlies meet warm air from			
In the	 22. The sun's rays shift northward and southward during the changing seasons of the year causing a shift in the position of a. convection zones and horse latitudes. b. fronts and trade winds. c. pressure belts and wind belts. d. convection zones and pressure belts. space provided, write the letter of the description that best matches the term 				
or pn		4			
	_ 23. doldrums _ 24. horse latitudes	a. narrow bands of winds formed when very warm equatorial air meets the cooler air of the middle latitudes			
·	_ 25. jet streams	b. narrow bands of strong winds that blow in the upper troposphere			
	_ 26. subtropical jet streams	c. bands of winds formed as a result of			
	_ 27. polar jet streams	density differences between cold polar air and the warmer air of the middle latitudes			
		d. subtropical high-pressure zones with weak and variable winds			
		e. a narrow zone at the equator where the trade wind systems meet			

Name	Class	Date
Directed Reading contin		•
OCAL MINDS		
_OCAL WINDS	st below to complete the s	entences that follow. Each term
may be used only once.		•
valley breeze	breezes	sea breeze
land breeze	mountain breeze	local winds
28. Air movement influe	nced by local conditions a	nd local temperature variations
often cause	, which	are not part of the global wind
belts.	₹	
29. Winds that blow at sp	peeds of less than 50 km/h	are called
	*	above water moves in to replace
it, a cool wind movin	ng from water to land, call	ed a
	, forms in the after	noon.
•		ly than the water does, and a sea
breeze is replaced by	/ a	, which flows from the coo
land toward the war		
32. During the day in m	ountainous regions, a gen	tle breeze called a
	forms when warm	air from the valleys moves
upslope.		
33. At night in the mou	ntains, cool air descends f	rom the peaks to the valleys,
creating a	•	•
•		