# World Book® Online:

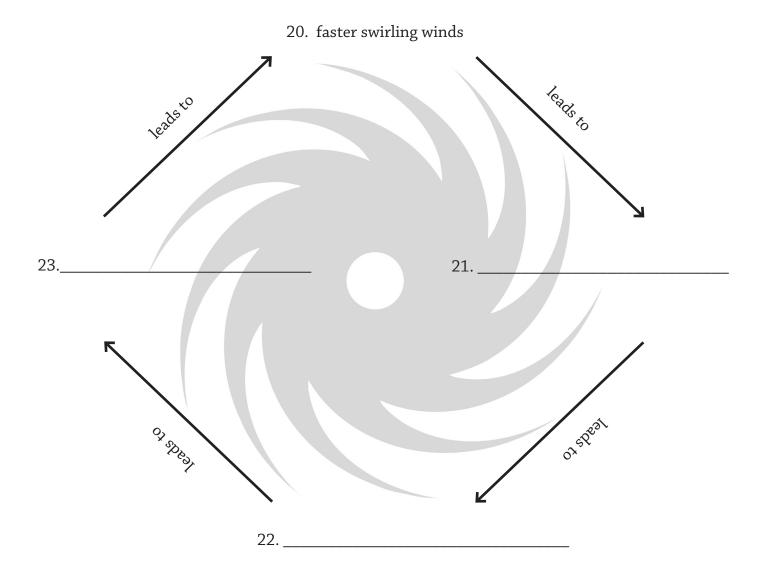
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Name	2:	Date:				
	Hurricanes					
warm incre where times tating learn	icanes are the most powerful storms on the planet. Fuele water from oceans, they can produce torrential rain and dibly strong winds. Hurricanes often stay out to sea, they only threaten ocean-going ships. But somes hurricanes will veer toward land, causing devasting flooding and wind damage. Scientists have ed quite a lot about hurricanes, but there is much to discover!					
	First, go to <b>www.worldbookonline.com</b> Then, click on "Student." If prompted, log on with your ID and Password.	WARN	ING			
Fina	l It!					
Since	he World Book search tool to find the answers to the questions this activity is about hurricanes, it is recommended you start by word "hurricane." Write the answer below each question.  In the North Atlantic, hurricanes are most common due.	by searching				
	and	(2	2 words).			
2.	Who is a meteorologist?					
3.	3. The winds of a hurricane swirl around a calm central zone called the					
4.	These winds can reach nearlymiles (_	1	kilometers) per hour.			
5.	. The effect of the rotating Earth on wind flow is called the					
6.	Hurricanes last an average oftoda	ys.				
7.	A long-lived storm may wandertom	iles (t	cokilometers).			

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8.	Hurricanes typically move over the sea at sp	peeds oftomiles			
	(tokilometers) per hour.				
9.	According to the article, what is the most dangerous?	angerous effect of a hurricane, and why is it so			
10.	What is a hurricane watch?				
11.	What is a hurricane warning?				
12.	To produce the swirling winds of a hurrican	e, a low-pressure area must be more than			
	degrees of latitude north or south of the equator.				
13. Why does a hurricane dissipate when it travels over land?					
14.	All hurricanes eventually move toward high	ner latitudes where there is			
	and	(3 words).			
15.	When did U.S. storms start receiving name				
Matc	h the feature of storm with the correct phase of	hurricane.			
	16. tropical disturbance	A. winds begin to blow in a circular pattern			
	17. tropical depression	B. storm has a well-defined circular shape			
	18. tropical storm	C. winds exceed 74 miles (119 kilometers) per hour			
	19. hurricane	D. cumulonimbus clouds begin to form			

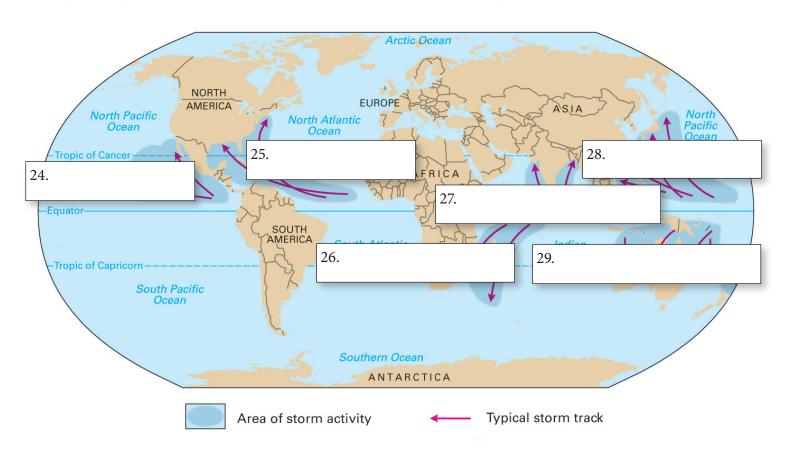
Around the hurricane, list the stages of the positive feedback loop that make hurricanes grow stronger. The first answer is given for you.



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### Map It! (24-29)

Within the World Book article Hurricane, you will find the map "When hurricanes strike." Study the map and write down what hurricanes are called in different parts of the world.



### What's the Word?

A hurricane's powerful winds scrambled these vocabulary words! Unscramble each one and write it in the space provided.

- 30. sand brain \_\_\_\_\_ (1 word) (hint: part of hurricane)
- 31. walleye \_\_\_\_\_(1 word) (hint: part of hurricane)
- 32. dumb cumin soul locus \_\_\_\_\_\_ (2 words) (hint: make up hurricane)
- 33. shine ward \_\_\_\_\_ (2 words) (hint: hurts hurricane)

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34.	russet gorm	(2 words) (hint: effect of hurricane)
35.	cannot so dine	(1 word) (hint: helps power hurricane)
36.	supper at chrome rises(hint: weight of air)	(2 words)
37.	litter goes moo	(1 word) (hint: studies weather)
38.	icicles to offer	(2 words) (hint: spins hurricane)
39	vote on a nair	(1 word) (hint: helps nower hurricane)



# **Teacher Page**

#### Answers:

- 1. summer, early fall.
- 2. A meteorologist is a scientist who studies weather.
- 3. eye
- 4. 200, 320
- 5. Coriolis effect
- 6. 3, 14
- 7. 3,000, 4,000; 4,800, 6,400
- 8. 20, 30; 16, 32
- 9. The storm surge is the most dangerous effect of a hurricane because it can flood densely-populated coastal regions.
- 10. A hurricane watch advises an area that there is a good possibility of a hurricane within 36 hours.
- 11. A hurricane warning means that an area is in danger of being struck by a hurricane in 24 hours or less.
- 12. 5
- 13. The storm no longer receives heat energy and moisture from warm tropical water.
- 14. colder ocean water, less moisture, greater wind shear
- 15. 1950
- 16. D. cumulonimbus clouds begin to form
- 17. A. winds begin to blow in a circular pattern
- 18. B. storm has a well-defined circular shape
- 19. C. winds exceed 74 miles (119 kilometers) per hour
- 20. faster swirling winds
- 21. more evaporation and condensation
- 22. more heat released
- 23. faster rising air
- 24. hurricane
- 25. hurricane
- 26. tropical cyclone
- 27. severe cyclonic storm

- 28. typhoon
- 29. severe tropical cyclone
- 30. rainbands
- 31. eyewall
- 32. cumulonimbus clouds
- 33. wind shear
- 34. storm surge
- 35. condensation
- 36. atmospheric pressure
- 37. meteorologist
- 38. Coriolis effect
- 39. evaporation