FLPS
Science

Name		
		

Science Semester 2 Exam

MATCHING - 1

Direc	tions: Place the correct letter	on the line that matches the definition to the word		
	1. Hurricane	A. heavy snowfall with strong winds		
	. 2. Eye	B. estimates how cold the air feels to the human body		
	3. Eyewall	C. development of a calm center of the storm		
	4. Saffir-Simpson Hurricane Scale	D. extended period of below average temperatures		
	5. Storm surge	E. extended periods of well below average rainfall		
	6. Drought	F. tall band of strong winds and dense clouds that surround the eye		
	7. Heat wave	G. extended periods of above average temperatures		
	8. Cold wave	H. tropical cyclone storm with winds over 119 kpm		
•	9. Blizzard	I. classifies hurricanes according to wind speed, potential for flooding in terms of the effect on the height of the sea level, and potential for property damage		
***************************************	10. Wind chill index	J. occurs when hurricane force winds drive a mound of ocean water toward coastal areas where it washes over the land		
Direc	TIPLE CHOICE tions: Circle the letter that be What weather events are mos A. floods B. polar high pressure system	t cold fronts associated with? C. tropical high pressure systems		
2.	Which way do hurricanes rota A. south B. clockwise	ate in the southern hemisphere? C. counterclockwise D. north		
3.	What percentage of tornadoe A. 1% B. 10%	s are classified as F4 or F5 on the Fujita tornado intensity scale? C. 50% D 75%		

4.	Heat waves involve high pressure systems that cause air to sink and warm by what process?			
	A. compression	C. evaporation		
	B. conduction	D. condensation		
5.	What is the first stage of a lightning bolt?			
	A. return stroke	C. positive charge		
	B. stepped leader	D. downdraft		
6.	Flooding is most likely to take place because of rains	associated with what type of front?		
	A. stationary front	C. cold front		
	B. occluded front	D. warm front		
7.	What would work against the development of a thun	der storm?		
	A. rising air	C. moisture		
	B. stable air	D. unstable air		
8.	In which ocean would you expect to experience a tro	opical cyclone?		
	A. West Pacific	C. Indian Ocean		
	B. North Atlantic	D. all of the above		
9.	Which of the following describes a type of damaging thunderstorm wind?			
	A. downburst	C. macroburst		
	B. microburst	D. all of the above		
10. Which of the following factors, if increased, would make a thunderstorm severe?				
	A. temperature	C. duration		
	B. surface area	D. conduction		
11.	During what stage of a tropical cyclone does an eyew	vall develop?		
	A. tropical depression	C. hurricane		
	B. tropical storm	D. tropical wave		
12.	Which of the following weather hazards involves a la	ck of moisture?		
	A. hail	C. storm surge		
	B. drought	D. flood		
13.	pment of hail?			
	A. super cooled water	C. strong downdrafts		
	B. strong updrafts	D. all the above		
14.	A mound of water driven toward coastal areas by hu	rricane winds is called		
	A. cyclone	C. storm surge		
	B. supercell	D. cold front		

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C. heat wave	
D. tropical cycle	one
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C. cumulus cells	
D. convection b	pursts
cumulonimbus cloud is	
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clouds.	
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	Growth will also stop if the rising air meets a layer of air that it cannot overcome.			
SHORT	ANSWERS			
Direction	ns: Answer all short answer questions using complete sentences. Spelling a	nd grammar count.		
1. W	1. Where in the United States do many tornadoes occur? Explain why.			
2. T	he Fujita Scale classifies tornadoes according to what criteria?			
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3. D	3. Describe a situation where a light rain could cause flooding.			
4. Id	dentify the four main stages of a tropical cyclone.			
5. W	What two conditions must exist for a tropical cyclone to form?			

ESSAYS

Directions: Pick one. Using complete sentences and the space provided below, answer each essay completely using at least 5-7 sentences Spelling and grammar count.

- 1. Describe the life cycle of a thunderstorm.
- 2. Explain how a hurricane forms.
- 3. Describe the weather pattern that causes drought, and explain how it is similar to the weather pattern that causes a heat wave.

	4. Describe how a tornado forms.			

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