

TEST NAME: Delk Study Set 5.E.1.3
TEST ID: 1590248
GRADE: 05 - Fifth Grade
SUBJECT: Life and Physical Sciences
TEST CATEGORY: My Classroom

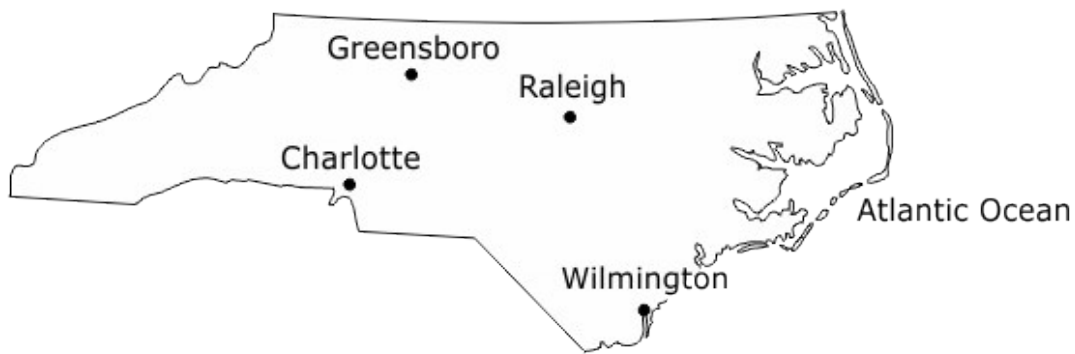
Student: _____

Class: _____

Date: _____

1. Which **best** describes a characteristic of the jet stream?
 - A. It forms a boundary between a cold air mass and a warm air mass.
 - B. It creates the high winds around the eye of a hurricane.
 - C. It forces the hot air along the equator to rise to areas in North America.
 - D. It causes high pressure air masses to rotate clockwise.

2. The map below shows several major cities in North Carolina.



During the winter, which city **most likely** has the warmest average temperature?

- A. Charlotte
 - B. Greensboro
 - C. Raleigh
 - D. Wilmington
3. What will **most likely** result when the jet stream moves south of North Carolina?
 - A. North Carolina will experience tropical weather conditions.
 - B. North Carolina will experience hot, dry weather.
 - C. North Carolina will experience mild weather.
 - D. North Carolina will experience cold weather.

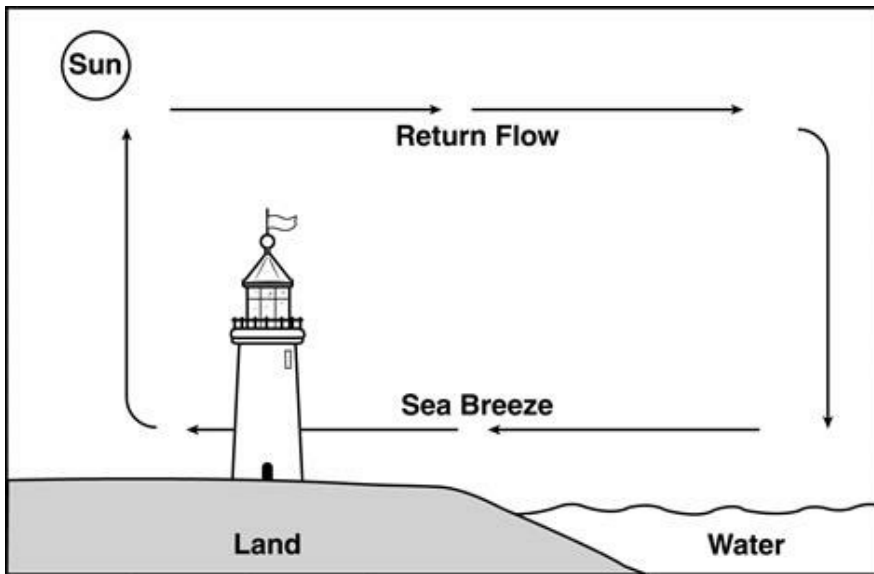
4. What two factors determine the direction in which prevailing winds blow?
- A. the rotation of the Earth on its axis and the cool air from the poles
 - B. the revolution of the Earth around the sun and the cool air from the poles
 - C. the rotation of the Earth on its axis and the sun's uneven heating of the earth
5. Why do most storms move from the west coast of America to the east coast?
- A. El Niño
 - B. La Niña
 - C. the jet stream
 - D. the Gulf Stream
6. Which weather conditions are associated with El Niño?
- A. increased temperature, increased precipitation
 - B. decreased temperature, increased precipitation
 - C. increased temperature, decreased precipitation
 - D. decreased temperature, decreased precipitation
7. Which **best** describes how winds in the jet stream blow?
- A. no pattern
 - B. between two boundaries of hot air
 - C. between two boundaries of cold air
 - D. between a boundary of cold air and a boundary of hot air
8. Which **best** explains what type of weather the Gulf Stream usually brings to North Carolina?
- A. increased wind speed
 - B. increased air pressure
 - C. increased temperature
 - D. increased evaporation

9. Which is **most responsible** for guiding the movement of different air masses across the United States?
- A. the oceans
 - B. trade winds
 - C. the jet stream
 - D. easterly winds
10. How does a large body of water usually affect weather conditions on nearby land?
- A. It causes the weather to be dryer in the winter.
 - B. It causes the weather to be colder in the winter.
 - C. It causes the weather to be warmer in the winter.
 - D. It causes the weather to be less severe in the winter.
11. How could La Niña affect weather during the summer in North Carolina?
- A. It could decrease wind.
 - B. It could increase rainfall.
 - C. It could decrease rainfall.
12. Which lists some effects of El Niño?
- A. warmer temperatures and more rain
 - B. warmer temperatures and less rain
 - C. cooler temperatures and less rain
13. In which direction do weather patterns move in the United States?
- A. south to north
 - B. west to east
 - C. east to west

14. Which might cause a person to feel cooler on the beach than a mile inland?
- A. wind
 - B. elevation
 - C. cloud cover
15. What impact does the Gulf Stream have on North Carolina's coastal climate?
- A. The cold water from the Gulf Stream current cools the land.
 - B. The warm water from the Gulf Stream current warms the land.
 - C. The cold water from the Gulf Stream current decreases inland wind speeds.
 - D. The warm water from the Gulf Stream current increases inland wind speeds.
16. Which causes North Carolina to experience an increase in winter precipitation?
- A. El Niño
 - B. La Niña
 - C. trade winds
 - D. prevailing westerlies
17. Which **best** describes the Gulf Stream?
- A. an ocean current which originates in the Gulf of Mexico and causes warm water to travel up the east coast of the United States
 - B. an ocean current which originates in the Gulf of Mexico and causes cool water to travel up the east coast of the United States
 - C. an ocean current which originates in the Gulf of Mexico and causes warm water to travel down the east coast of Mexico
 - D. an ocean current which originates in the Gulf of Mexico and causes cool water to travel down the east coast of Mexico

18. Many summer storms in North Carolina are caused by air masses moving from which area?
- A. Virginia
 - B. Africa
 - C. Pacific Ocean
 - D. Gulf of Mexico
19. What guides the cold arctic air that enters North Carolina in the winter months?
- A. jet stream
 - B. trade winds
 - C. subtropical air mass
 - D. maritime polar air mass
20. Which weather pattern **most** influences the weather in North Carolina?
- A. polar easterlies
 - B. tropical easterlies
 - C. tropical westerlies
 - D. prevailing westerlies
21. Which explains the high precipitation levels in areas near the equator?
- A. The equator has very little wind, which causes rain-filled clouds to remain still for longer periods of time.
 - B. The equator has stronger winds that cause clouds filled with precipitation to burst, resulting in precipitation.
 - C. At the equator, warmer conditions create an increase in evaporation. Evaporation leads to more precipitation.
 - D. At the equator, warmer conditions create a decrease in evaporation. Less evaporation leads to more precipitation.

22. The diagram shows the movement of air.



Which factor is most responsible for the movement of the air shown?

- A. uneven heating of the air
 - B. imbalance in organisms breathing the air
 - C. sunlight getting blocked by the land
 - D. different levels of liquid in the air
23. A student in northern Ohio lost a balloon in a storm. Toward which state would the balloon most likely travel?

Map of Ohio and Surrounding States



- A. Michigan
- B. Indiana
- C. Pennsylvania
- D. Kentucky

