

Name Key

### Study Guide for Q1 Unit Test on Weather/Water Cycle

1. What happens to water vapor when it cools?

It condenses to form clouds.

2. How are cold fronts shown on a weather map?

A blue line with triangles

3. If a weather map shows a cold front moving towards Georgia and the temperatures are in the 40's and 50's, predict the weather over the next few days?

A cold front will pass over, so the weather will be cooler and drier.

4. Think about the steps in the water cycle. What causes hail?

When liquid water passes through freezing - cold air.

5. When the weather is very cold and the air is filled with water vapor, what kind of precipitation might happen?

Sleet or hail

6. When it rains, what step of the water cycle is happening?

- a) water is evaporating      b) water is condensing  
c) water is freezing      d) precipitation

7. What is the first step in the formation of a cloud?

Evaporation happens first, then condensation forms a cloud

8. Which weather instrument measures air pressure?

barometer

9. If water vapor turns directly to ice, what kind of precipitation happens?

snow

10. Where is most of Earth's water located?

In the oceans

11. When sun shines on water, what happens?

- a) a liquid changes to a solid
- b) a gas changes to a liquid
- c) a solid changes to a liquid
- d) a liquid changes to a gas

12. What is the temperature at which water boils?

100°C

13. What weather instrument measures wind direction?

Wind vane

14. If water vapor is condensing near the ground, what might you see?

fog

15. If the surface of a pond is frozen, what is the temperature of the ice measured in degrees Celsius?

0 degrees Celsius

16. What state is ice - Solid liquid or gas? When it sits in the sun, it melts. What state will occur next?

Solid

evaporation

17. When does fog form?

When water vapor condenses into small vapor droplets near ground level

18. Think about the steps of the water cycle - what happens before water condenses to form clouds?

evaporation

19. What is climate?

The average of the conditions of the atmosphere over many years.

20. Which instrument could help you decide if you need to wear a coat to school?

- a) Thermometer
- b) anemometer
- c) wind vane
- d) barometer

Even when it is warm outside, a strong wind can make it feel much colder.