

**Air Mass and Fronts Quiz**

*Vocabulary-Matching (Questions 1-8) Place letter of the correct vocabulary word in the space before the number.*

- \_\_\_\_\_ 1. Front  
A. The leading edge of a warm air mass overtaking a cooler, slower air mass.
- \_\_\_\_\_ 2. Air mass  
B. An area where the atmospheric pressure is greater than the rest of the atmosphere.
- \_\_\_\_\_ 3. Continental  
C. An air mass formed over land.
- \_\_\_\_\_ 4. Storm surge  
D. The boundary separating two or more different types of air masses.
- \_\_\_\_\_ 5. High pressure system  
E. An area where the atmospheric pressure is lowest compared to the surrounding area.
- \_\_\_\_\_ 6. Low pressure system  
F. A hurricane pushes a huge mass of ocean water.
- \_\_\_\_\_ 7. Stationary front  
G. A huge body of air that forms over a region characterizing it with a similar temperature, humidity and pressure at any given height.
- \_\_\_\_\_ 8. Warm front  
H. A boundary between two different air masses, neither of which is strong enough to replace the other.

**Question 9-11.**

Identify each picture as either a **cold front**, **stationary front**, or a **warm front**.



9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

**Questions 12-15**  
**Multiple Choice - Select the letter of the best answer.**

- \_\_\_\_\_ 12. Air pressure  
A. measures the amount of water in the air  
B. is the force exerted by moving air molecules.  
C. measures the speed of wind.  
D. only pushes on objects in one direction.
- \_\_\_\_\_ 13. Air pressure increases  
A. as altitude increases.  
B. as density decreases.  
C. as you move lower in the atmosphere  
D. as you move higher in the atmosphere
- \_\_\_\_\_ 14. Which of these tools is used to measure air pressure?  
A. barometer  
B. speedometer  
C. thermometer  
D. kilometer
- \_\_\_\_\_ 15. Where is air pressure lowest?  
A. at the bottom of the Grand Canyon  
B. on top of a skyscraper  
C. at sea level  
D. on top of Mt. Everest