

**Meteorology Test 4**  
**Clouds and Cloud Formation**

Name:

1. Name the four mechanisms that lift air so that condensation and cloud formation can occur.
2. What is a rain shadow?
3. What is the difference between adiabatic and diabatic processes?
4. The air's susceptibility to uplift is called its \_\_\_\_\_.
5. The stratosphere is extremely (stable, unstable) due to an \_\_\_\_\_.
6. High clouds exist above \_\_\_\_\_.
7. What three clouds types are considered high clouds?
8. High clouds are composed of \_\_\_\_\_.
9. Horizontal curves of ice crystals off of \_\_\_\_\_ clouds are sometimes called mares' tails, or fallstreaks. How are these fallstreaks created?
10. What type of optical phenomena are cirrostratus clouds often associated with?
11. Cirrocumulus clouds are associated with the term \_\_\_\_\_ because of their resemblance to fish scales.
12. Middle clouds exist between \_\_\_\_\_ and \_\_\_\_\_.
13. What two cloud types are considered middle clouds?

14. Low clouds exist below \_\_\_\_\_.
15. What three cloud types are considered low clouds?
16. What two cloud types are not categorized as high, middle, or low clouds because of their extensive vertical development?
17. Who created the first system for cloud classification in 1803?
18. What is the name for the study of clouds?
19. When a cloud has become glaciated, it consists entirely of \_\_\_\_\_.
20. This special cloud is sometimes mistaken as a UFO:\_\_\_\_\_.
21. Where is this cloud found?
22. Sometimes, clouds are located directly next to isolated mountain peaks. What special cloud is this?
23. Underneath cumulonimbus clouds, there are sometimes bulges where downdrafts are present. What is the name of this cloud feature?
24. What two clouds can be found above the troposphere?
25. Which of these two clouds is also known as “Mother of Pearl” clouds?
26. All polar stratospheric clouds are involved with the destruction of \_\_\_\_\_.