

## Science Chapter 11 Notes

1. The layer of air closest to the Earth's surface is called the Troposphere.
2. Air pressure is the weight of the atmosphere pressing down on Earth.
3. The process by which water in a fish tank disappears over time is evaporation.
4. The process by which water changes from a gas to a liquid is called condensation.
5. A large body of air that has the same temperature and humidity throughout is an air mass.
6. The movement of water from Earth, to the atmosphere, and back to Earth is called the water cycle.
7. The blanket of air surrounding the Earth is called the atmosphere.
8. The border between two air masses is called a front.
9. The name of a wind that blows constantly in the same direction is called a prevailing wind.
10. You know that winter weather where you live is about the same every year. This type of weather pattern is called climate.
11. You are on an island in the Caribbean Sea. The maritime tropical air mass forms over you.
12. A barometer would be used to measure the pressure of the surrounding air.
13. Most of Earth's weather happens in the Troposphere.

14. Cold air is denser than warm air; cold air exerts more pressure
15. Air temperature has the greatest effect on humidity.
16. Earth's rotation on its axis causes prevailing winds to move in curved paths.
17. It is a cold, rainy day. The weather forecast is for the next day to be warm and sunny. What would you predict about the amount of evaporation that will take place on the warm, sunny day? Explain!!
18. You are planning a vacation. Before leaving, you gather data about weather forecasts for that region. You learn that a continental polar air mass will be over the region when you arrive, but that it will quickly be replaced by a maritime tropical air mass. What kind of weather can you expect when you arrive? How will the weather change after your arrival.
19. Ann is writing a report to explain the effect of mountain ranges on weather. What should her report say about the air masses and precipitation on both sides of the mountain?
20. Study the section in the book on land breeze/sea breeze.