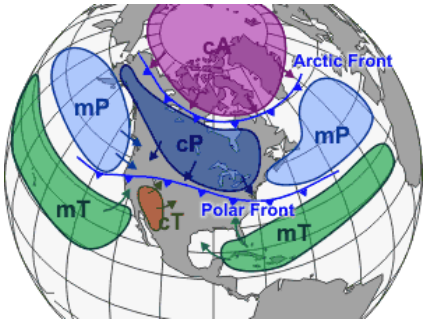
Air Masses & Fronts

Chapter 3 Section 1



Picture taken from National Weather Service website.

Last week we began learning about air masses and fronts.
Today we will go further in exploring these topics.
Visit the websites listed below to find the answers for each question.

Site 1

1. What is an air mass?

2. For each of the four air masses, what is the description this website gives?

Site 2

3. Click on the "Cold Front." What happens in the illustration?

4. Click on the "Warm Front." What happens in the illustration?

5. In both the cold front and the warm front, warm air rises and cold air stays near Earth's surface. How are they different?

Site 3

6. What is a cold front and in what direction does one typically move?

7. How are cold fronts represented on a weather map?

8. From the chart at the bottom of the page, what happens to the wind as a cold front passes through? What about the precipitation?

Site 4

9. What is a warm front and in what direction does one typically move?

10. How are warm fronts represented on a weather map?

11. From the chart at the bottom of the page, when a warm front passes through an area, what happens to the temperature and precipitation levels in that area?

Site 5

12. What is a stationary front and what type of weather does one typically bring?

13. What is the weather map symbol for a stationary front?

Site 6

14. How does an occluded front form?

15. What is the weather map symbol for an occluded front?

Site 7

16. What is a high pressure system?

17. What type of weather is associated with high pressure systems?

18. What is a low pressure system?

19. What type of weather is associated with low pressure systems?

Site 8

20. Go to the below website and answer all 15 questions. When you finish, write down your score as the number you got right (out of 15) and the percent (out of 100) it equals. Before you record your final score, have your teacher initial your worksheet.

Site 1 : Air Masses - The Basics
http://itg1.meteor.wisc.edu/wxwise/AckermanKnox/chap9/airmass_rev.html

Site 2: Front Illustrations
http://www.classzone.com/books/earth_science/terc/content/visualizations/es2002/es2002page01.cfm?chapter_no=visualization

Site 3: Cold Fronts
http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/af/frnts/cfrnt/def.rxml

Site 4: Warm Fronts
http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/af/frnts/wfrnt/def.rxml

Site 5: Stationary Fronts
http://usatoday30.usatoday.com/weather/tg/wsfront/wsfront.htm

Site 6: Occluded Fronts
http://www.atmos.illinois.edu/earths_atmosphere/airmasses_fronts.html

Site 7: Pressure Systems
http://quizlet.com/7867831/8th-grade-climateweather-flash-cards/

Site 8: Review Quiz
http://www.quia.com/quiz/278988.html