Directions: *Complete the concept map using the terms in the list below.*



Directions: Complete the following sentences using the correct terms.

- 8. Clouds form as moist air rises and ______.
- 9. When dense, cold air meets less dense warmer air, the warm air is pushed

10. Winds form because air moves from an area of high pressure to an area

of _____ pressure.

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1. How does temperature affect humidity?

- 2. Why can't cold air hold much water vapor?
- 3. How do clouds form?
- 4. Complete the chart below about the types of clouds in Figures 1 through 4.









Figure 1

Figure 2

Figure 3

Figure 4

	Figure 1	Figure 2	Figure 3	Figure 4
Туре				
Description				
Weather				

Directions: Match the terms in Column I with their descriptions in Column II. Write the letter of the correct description in the blank at the left.

Colum	n I
	5.

snow

6. rain

7. sleet

8. hail

Column II

- **a.** water drops that fall when the temperature is above freezing
- **b.** water drops that fall and become solid when the temperature is below freezing
- **c.** water drops that freeze in layers around small nuclei of ice during thunderstorms
- **d.** water drops that pass through a layer of freezing air near the surface, forming ice pellets

Name	Da	ite	Class				
Reinforcement Weather Patterns							
Figure 1		Figure 2					
Cold air Topeka, KS •	Warm air • Kansas City, KS	Warm air Indianapolis, IN •	Cold air • Columbus, OH				
Directions: Use the diagrams to answer the following questions.							
1. What kinds of clouds form along the front in Figure 1?							
2. What kind of precipitation might come from these clouds?							
3. What kind of cl	ouds form along the front in Figu	ure 2?					
4. What kind of pr	ecipitation might come from the	ese clouds?					
5. Figure 1 represe	nts a						
6. Figure 2 represe	nts a						
7. What will happe	n to the temperature in Columb	us, Ohio, when t	he front passes?				
			.				
8. Compare the ter	nperatures in Topeka and Kansas	s City, Kansas					
9. Fill in the chart	about the elements of thundersto	orms.					
Element of Thunderstorms		Caused by					

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Date



Directions: Use the weather map and Weather Map Symbols Reference Handbook to answer the following questions.

- 1. Which station has the lowest pressure?
- 2. How would you describe the wind at Station B?
- 3. Which station is recording the highest wind speed?
- 4. Which station has the highest pressure?
- 5. What kind of front is south of Station A?
- 6. Which station has the most cloud cover?
- 7. How might the temperature change at station C over the next few hours? Why?

Directions: Answer the following questions on the lines provided.

- 8. What is the difference between an isobar and an isotherm?
- **9.** On a weather map for county A, the isobars are far apart. On a map for county B, about 100 miles away, the isobars are close together. Which map shows high winds? How can you tell?

Weather 29