

**Can You Explain Why These Instruments and Conditions
Changed When the Barometer Dropped?**

October 3rd Through October 9th

Date	Barometer Air Pressure	Thermometer Temperature	Anemometer Wind Speed	Weather Vane Wind Direction	Rain Gauge Rainfall	Ruler Snow fall
October 3	30.15	75 Degrees	10 mph	South	None	None
October 4	29.85	80 Degrees	20 mph	South	None	None
October 5	29.65	85 Degrees	30 mph	South	None	None
October 6	29.55	50 Degrees	20 mph	North	.76 inches	None
October 7	29.85	55 Degrees	10 mph	North	.5 inches	None
October 8	30.00	65 Degrees	5 mph	North	None	None
October 9	30.15	70 Degrees	5 mph	NW	None	None

1. What happened to the temperature when the barometer began to drop?

2. Why did the temperature do this?

3. What happened to the wind speed when the barometer began to drop?

4. Why did the wind do this?

5. When the barometer reached its lowest point what happened to the wind direction?

6. Why did the wind do this?

7. When the barometer reached its lowest point what happened to the precipitation?

8. Why did this happen in question number 7?

9. Why didn't it snow?

10. What happened to the temperature when the barometer began to rise?

11. Why did the temperature do this?

12. What happened to the wind speed when the barometer began to rise?

13. Why did the wind do this?

14. What happened to the precipitation when the barometer began to rise?

15. If the barometer continues to rise, what do you predict the weather will be?

a. Temperature? _____

b. Wind Speed? _____

c. Wind Direction? _____

d. Precipitation? _____

16. What will happen to the precipitation when the barometer drops again and the temperature gets below freezing?
