

Name: _____

Period: _____

WEATHER STATION MODELS LAB

1. Briefly explain why meteorologists use station models.

2. What instrument is used to measure air pressure? _____

3. What is the normal range of air pressures on Earth? _____

4. What are the 3 steps in the process of coding an air pressure measurement for a station model

1. _____
2. _____
3. _____

5. Complete the air pressure conversions below.

1029.6 mb →	999.9 mb →
993.0 mb →	1040.2 mb →
1000.0 mb →	973.5 mb →

6. What are the 3 steps in the process of decoding an air pressure measurement for a station model

1. _____
2. _____
3. _____

7. Complete the air pressure conversions below.

903 →	422 →
092 →	124 →
845 →	501 →

8. Draw the pressure trend that should appear on the station model based on the following data.

The air pressure has increased by 1.4 mb during the past 3 hours.	
The air pressure has decreased by 3.9 mb during the past 3 hours.	
The air pressure has increased by 0.7 mb during the past 3 hours.	

Go on to the problems on the back of the page. You will need to continue using the LinkViewer to answer these questions.

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9. For each station model shown in the LinkViewer, record the actual weather data (include whatever data is shown, not every variable will be there). Be sure to convert the pressures to the long version and include units whenever necessary. Use your reference tables to help you.

STATION MODEL #1	STATION MODEL #2	STATION MODEL #3	STATION MODEL #4
STATION MODEL #5	STATION MODEL #6	STATION MODEL #7	STATION MODEL #8

10. For each set of data presented in the LinkViewer, draw a station model correctly representing the data. Be sure to shorten the air pressures and record everything in the appropriate format. Use your reference tables to help you.

STATION MODEL A	STATION MODEL B	STATION MODEL C	STATION MODEL D
			