

GRADE 6 WEATHER FORECAST

Name: _____ # _____ Class Period _____ Date: _____

Use your Earth Science text. Write answers to the questions below in the space provided. All your work should be in complete sentences, with correct spelling, punctuation, capitalization, and grammar. **This will be graded and is due on 10/10.** We will work on this in class on Tuesday too.

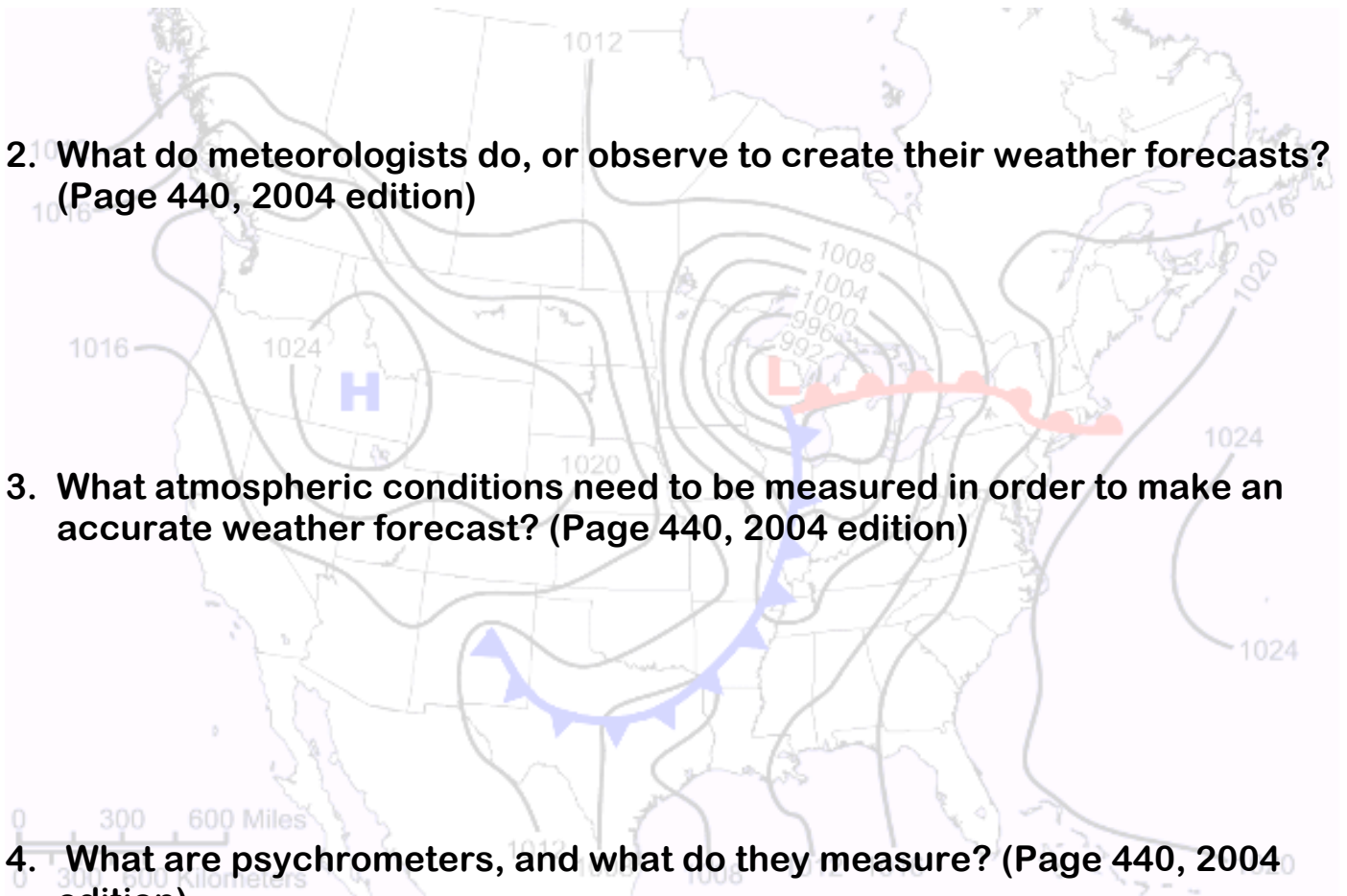
1. What is a weather forecast? (Page 440, 2004 edition)

2. What do meteorologists do, or observe to create their weather forecasts? (Page 440, 2004 edition)

3. What atmospheric conditions need to be measured in order to make an accurate weather forecast? (Page 440, 2004 edition)

4. What are psychrometers, and what do they measure? (Page 440, 2004 edition)

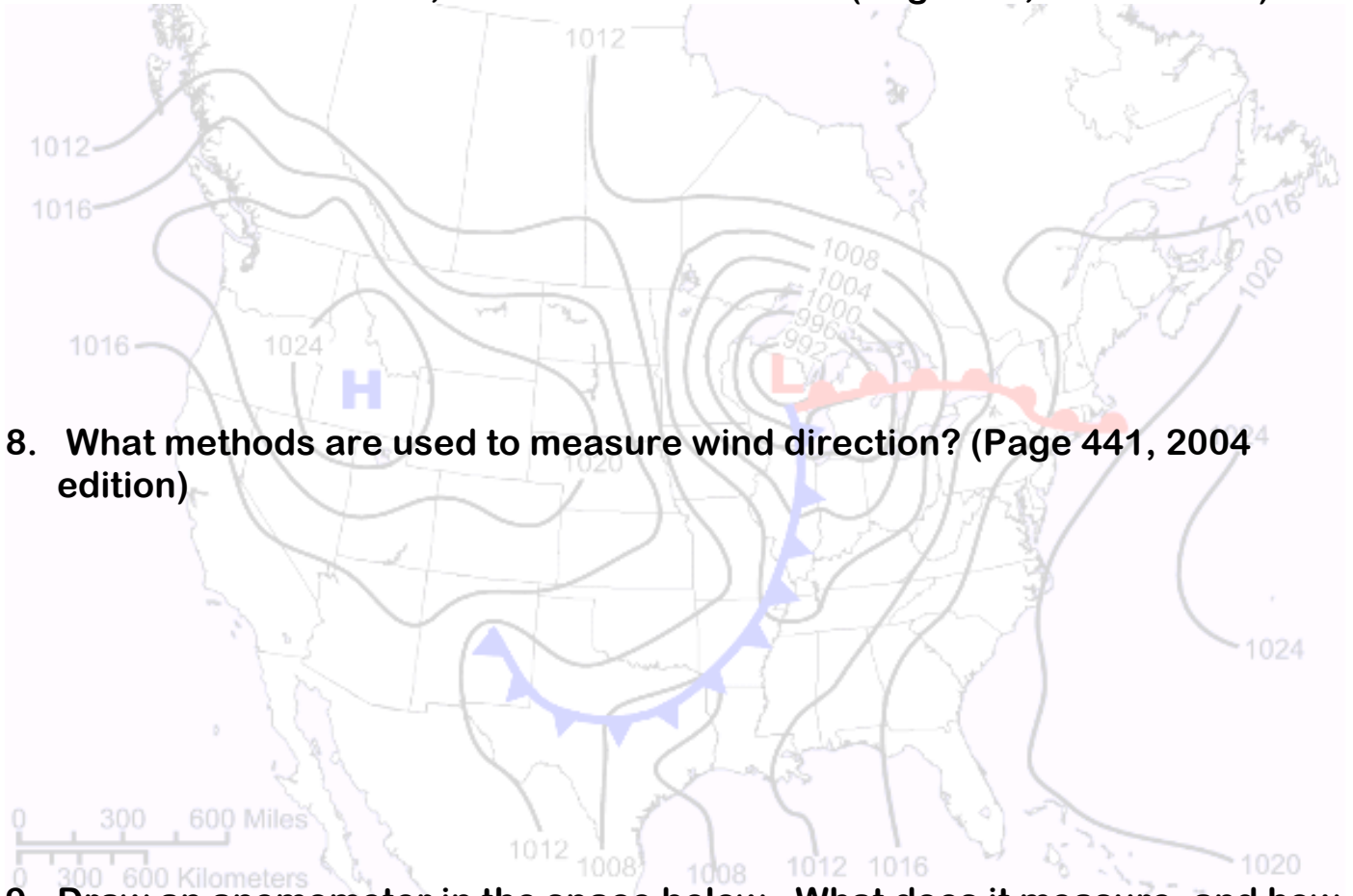
5. What do thermometers measure, and how do common thermometers work? (Explain the effect of temperature on the liquid inside a liquid thermometer.) (Page 440, 2004 edition)



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6. In our country, what units are used to report air temperature? What is the other unit used to represent temperature? (Page 440, 2004 edition)

7. What is the most accurate method of measuring air pressure? What is the name of the tool used, and how does it work? (Page 441, 2004 edition)



8. What methods are used to measure wind direction? (Page 441, 2004 edition)

9. Draw an anemometer in the space below. What does it measure, and how does it do this? (Page 441, 2004 edition)

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10. Why do meteorologists study weather in the upper atmosphere? (Page 441, 2004 edition)

11. What is radar used for? How does it help inform meteorologists about weather systems? (Page 442, 2004 edition)

12. Use the symbol in Figure 31 (page 443, 2004 edition) as your pattern. Create weather symbols for each of the weather conditions described below (You will create 5 in all.) Remember, your work must be neat and precise. Each symbol should be drawn in a box like the one below the table. (Draw your symbols on notebook paper.)

a. Use this hyperlink to assist you:

[http://ww2010.atmos.uiuc.edu/\(Gh\)/wwhlpr/sfcobs.rxml?hret=/guides/crclm/act/wx.rxml](http://ww2010.atmos.uiuc.edu/(Gh)/wwhlpr/sfcobs.rxml?hret=/guides/crclm/act/wx.rxml)

Symbol	Temp. Fahrenheit	Precip.	Dew Point	Wind speed (knots)	Cloud cover	Barom. Pressure	Wind direction
1	64	Fog	58	15	75%	27	NE
2		Rain					
3		Hail					
4		None					
5		Light					

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		snow					
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13. What are isobars? (Page 443, 2004 edition)

14. Why would a meteorologist compare a new weather map with one 24 hours old?

