

WEATHER FORECAST

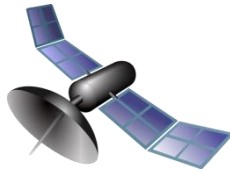
Activity 1 – Weather Instruments

Directions – Use the word bank below to identify the 1) name of each weather tool and 2) describe what it measures.

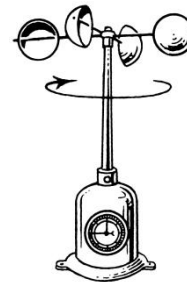
Rain Gauge	Thermometer	Weather Balloon	Anemometer	Wind Vane
Weather Satellite	Sling Psychrometer	Barometer	Wind Sock	Compass
rain fall	conditions high in the atmosphere	direction	wind speed	cloud coverage
humidity	wind speed and wind direction	air pressure	wind direction	temperature



1) _____
2) _____



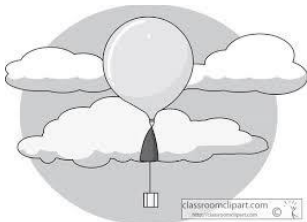
1) _____
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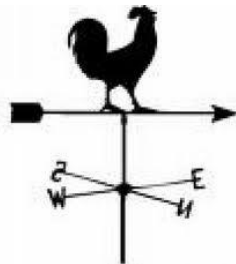
1) _____
2) _____



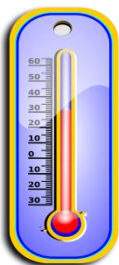
1) _____
2) _____



1) _____
2) _____



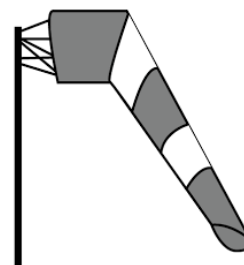
1) _____
2) _____



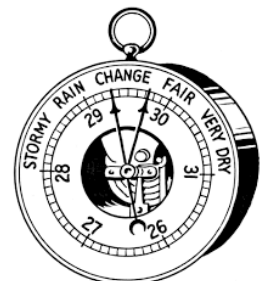
1) _____
2) _____



1) _____
2) _____



1) _____
2) _____



1) _____
2) _____

Activity 2 – Predicting the Weather

Following the directions to add details to the map below, and then use the completed map to answer the questions.



1. Draw the symbol for high pressure anticyclones in Central Idaho, Southern Texas, and New York. High pressure anticyclones are represented with a capital H that is blue and bold.
2. Draw the symbol for low pressure cyclones in Arizona, Southern Minnesota, and Central Kansas. Low pressure cyclones are represented with a capital L that is red and bold.
3. A stationary front is located from Southern California and continues to Southern Arizona. Use the stationary front symbol to show this front.
4. A cold front is moving southeast through the state of Iowa. Use the cold front symbol to show this front. The direction of the triangles need to point in the southeast direction showing the direction it is moving.
5. And occluded is in the northwest corner of Ohio, heading in a southeast direction. Use the occluded front symbol to show this front.
6. A large warm front is located from the southwest corner of Wyoming and goes all the way to the northeast corner of North Dakota. The front is moving in a southeast direction; make sure the semi-circles for the front symbol are pointed in a southeast direction showing the direction the front is headed.

7. A swift moving cold front is located between central Arkansas all the way to Southern Virginia. It is moving fast in a southward direction. Make sure the triangles are pointed in a south direction showing where the front is headed.

Analysis Questions

8. What is the weather Central Idaho experiencing? (Hint – look at page 106 for guidance)
9. What is the weather Ohio is experiencing or will experience in the next 12 hours?
10. What is the weather in Southern Arizona?
11. Why would a meteorologist say that Alabama will have thunderstorms within the next 12 to 24 hours?
12. Why is Southern Texas experiencing clear and sunny weather? How do you know?
13. Predict the type of weather is occurring in Wyoming? How do you know?
14. Will Georgia experience clear skies or storms in the next few days? Explain why.
15. Predict the type of weather the state of Illinois may experience in the next 12 to 24 hours.

