PREDICTING WEATHER Study Guide



- •A <u>meteorologist</u> is a person who studies and predicts weather.
- Weather is what the air is like at a certain time and place.
- The <u>atmosphere</u> is a blanket of gases and tiny bits of dust that surround Earth.
- Air temperature, precipitation, humidity, wind and air pressure describe the weather.
- <u>Temperature</u> is the measurement of how hot or cold something is. A <u>thermometer</u> measures temperature.
- <u>Precipitation</u> is water that falls to the ground from the atmosphere.

Types of precipitation are rain, snow, sleet and hail.

A <u>rain gauge</u> measures the amount of rain that has fallen over a certain period of time.

- **Humidity** is the amount of moisture in the air.

A **hygrometer** measures how much humidity is in the air.

- Wind is moving air.

A wind vane tells the direction of the wind.

An anemometer measures wind speed.

- <u>Air pressure</u> is the weight of air pressing down on Farth.

A **barometer** measures air pressure.

<u>Weather balloons</u> measure weather conditions and gather data from the atmosphere.





- To make a weather **forecast**, meteorologists will organize their data in different ways.
- A **weather data chart** can help show trends or patterns that allow you to make general weather predications. A **weather data chart** can also be used to compare weather in different cities.
- **Weather maps** are useful in predicting weather conditions such as temperature and precipitation.