



# Lesson 1:

## What is Weather?

1

# What is Weather?

Weather describes the properties of the atmosphere at a given time and location, including temperature, air movement, and precipitation.



2

## Factors that Affect Weather

Major factors that affect weather patterns and weather in an area include temperature, humidity, and air pressure.



3

## Measuring Weather

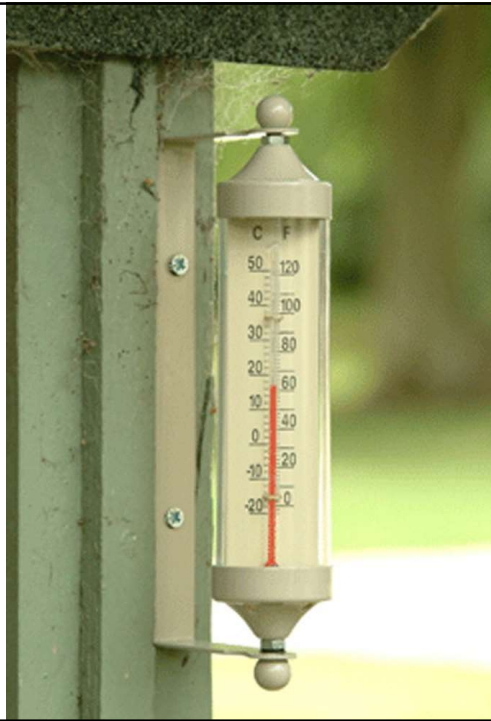
Tools can be used to measure a variety of weather factors. These factors can be used both to describe current weather conditions and to predict future weather events.



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# Temperature

Temperature describes how hot or cold the air is. Temperature is measured using a thermometer.



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# Air Pressure

Air pressure measures how close together the air molecules are. Air pressure is measured using a barometer.



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## Humidity

Humidity describes the amount of water vapor in the air. Humidity is measured using a hygrometer.



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## Wind Speed

Wind speed measures how fast the air is moving. An anemometer is used to measure wind speed.



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## Precipitation

Precipitation is the amount of rain or snow that falls. A rain gage can be used to measure precipitation.

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## Wind Direction

Wind direction describes in which direction air is moving. A wind vane can be used to determine wind direction.

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## What is Weather: Key Questions

1. What is weather?
2. What factors of weather can we observe and measure?
3. What tools do we use to measure weather factors?