



Lesson: Measuring Weather

Name:

Teacher:

Date:

Measuring Weather Article

Measuring Weather

Weather affects our daily lives, it determines what we wear, how we travel, and what activities we can do. But how do we know what the weather is like? Scientists and meteorologists use **weather instruments** to measure different aspects of the atmosphere. These tools help predict storms, track rainfall, and observe wind patterns, giving us important information to make daily decisions.

Key Weather Instruments

Thermometer – Measures temperature (how hot or cold it is).

Example: 30°C (86°F) indicates a hot day.

Practical use: Helps decide what to wear and understand temperature trends.

Rain Gauge – Measures rainfall (how much rain falls in a certain area).

Example: 5 inches of rain after a storm.

Practical use: Helps farmers track water for crops and plan for flooding.

Anemometer – Measures wind speed.

Example: 20 miles per hour indicates a breezy day.

Practical use: Helps pilots, sailors, and kite flyers.

Barometer – Measures air pressure (how heavy or light the air feels).

Example: Low air pressure often brings rain; high pressure brings clear skies.

Practical use: Helps predict storms and keeps communities safe.

Everyday Applications

Weather instruments guide daily decisions:

- **Planning activities:** Check temperature, rainfall, and air pressure for outdoor events.
- **Travel safety:** Pilots and drivers use weather data to prepare for conditions.
- **Farming:** Farmers track rainfall, temperature, and humidity to care for crops.



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Why Measuring Weather Is Important

Measuring weather helps us stay safe, prepared, and informed. It allows meteorologists to give accurate forecasts, predict storms, and study patterns in nature, helping us understand seasonal and long-term climate trends.

Important Words to Remember

- **Thermometer:** Measures temperature
 - **Rain Gauge:** Measures rainfall
 - **Anemometer:** Measures wind speed
 - **Barometer:** Measures air pressure
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References

- National Weather Service. (n.d.). *Weather Instruments*. Retrieved from <https://www.weather.gov>
- American Meteorological Society. (n.d.). *Tools of the Trade: Weather Instruments*. Retrieved from <https://www.ametsoc.org>