

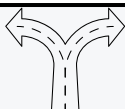
Measuring Weather Conditions Menu

Directions: Take a look at the different ways you can explore **measuring weather conditions** on the choice board. Choose the ONE activity that you think will best help you show what you've learned and that you will enjoy working on!

Ask and Investigate 	Model It! 	Be a Data Detective 
Come up with a question about how we measure a specific weather condition. Plan a simple way to explore your question.	Create a model of a weather instrument and explain how it works to measure a specific weather condition.	Collect weather data using simple tools or online resources over a few days. Record your data and look for any patterns or changes in the measurements. Share your findings.
Math Connections! 	Explain It! 	Solve a Problem! 
Use numbers and units to describe different weather measurements. Convert between units if possible and explain why these measurements are important.	Explain in your own words how different weather conditions are measured. Describe the tools used.	Imagine you need to plan an outdoor event. What weather conditions would be most important to measure and why? How would you get this information?
Tell a Story! 	Create a Visual! 	Be the Teacher! 
Write a short story where characters use different weather instruments to make predictions or understand the weather around them.	Create a visual that shows different weather instruments and what they measure. Include units of measurement.	Explain to someone how to use a simple weather instrument and how to understand the measurement it provides.

Weather Watch: Measuring Ideas!

Explore the core concepts of measuring weather with these starting points. Remember, you can always come up with your own amazing projects too!

Ask and Investigate 	Model It! 	Be a Data Detective 
1. Can you tell which way the wind is blowing by watching things outside? How accurate do you think you are? 2. Does the temperature feel the same in the sun and the shade? How could you measure the difference?	1. Build a simple wind vane using paper and a straw to show wind direction. 2. Create a basic rain gauge using a straight-sided container to collect and measure rainfall.	1. Check the temperature outside at the same time each day for a week. Record your findings. 2. Use an online weather website to find the wind speed and direction for your town for the last 24 hours.
Math Connections! 	Explain It! 	Solve a Problem! 
1. The temperature is 25 degrees Celsius. What is that in Fahrenheit? (Look up the formula!) 2. If it rained half an inch yesterday and a quarter of an inch today, what's the total rainfall?	1. How does a thermometer measure the temperature? 2. What does an anemometer do, and how does it work?	1. If you were hiking, how could you estimate the wind speed without a special tool? 2. How could you keep a rain gauge from blowing over in strong winds?
Tell a Story! 	Create a Visual! 	Be the Teacher! 
1. Write a story about a group of explorers who rely on weather instruments to navigate. 2. Tell a story from the point of view of a raindrop being measured in a rain gauge.	1. Draw and label different types of thermometers and what they are used for. 2. Create a chart showing common weather symbols and what they mean on a weather map.	1. Show someone how to read an outdoor thermometer. 2. Explain to a younger person what a wind sock tells us about the wind.