

# Weather

1. Observe the actual weather for one day. Chart it and compare it to the weather report.
2. Describe the following: wind, clouds, fog, rain, sunshine, and atmosphere.
3. Identify three instruments used to predict the weather.
4. Learn how the water cycle works and why it is so important to us.
5. Describe how the temperature is measured.
6. Find and read about the day God created the air (firmament).
7. Read Mark 4:38-39 and tell what Jesus did.
8. Make a wind pinwheel.



## Helps

1. Review with the children the weather report. Let them chart what they heard and what they saw.
2. Wind is air in motion. The uneven heating of the earth's surface by the sun produces wind. A cloud is a large collection of very tiny droplets of water or ice crystals. The droplets are so small and light that they can float in the air. Fog is a cloud close to the earth. Rain is a water droplet forming from warm air. As the warm air rises in the sky it cools. When the drops get heavy, they fall because of gravity, and you see and feel rain. Sunshine is solar energy from the sun used to heat the earth. The atmosphere is a layer of gases surrounding a planet (air).
3. A thermometer measures the air temperature. A barometer measures air pressure. Weather satellites are used to photograph and track large-scale air movements. Doppler radar detects precipitation intensity, wind direction, and speed, and provides estimates of hail size and rainfall amounts. An anemometer measures wind speed. The cups catch the wind, turning a dial attached to the instrument. The dial shows the wind speed. Your eyes are one of the best ways to help detect the weather.
4. This is what happens to the water in our creeks, streams, rivers, lakes, and oceans. The water evaporates into the air and rises with the heat of the sun. It condenses into small droplets into what we see as clouds. When the droplets become too heavy, they fall to the ground as rain or snow. It refills the water in our creeks, streams, rivers, lakes, and oceans. Without it we will not have enough water to survive.
5. Temperature is a degree of hotness or coldness. It can be measured using a thermometer. Temperature is measured in degrees on the Fahrenheit, Celsius, and Kelvin scales.
6. Day 2; Genesis 1: 6-8.
8. Search the Internet for "pinwheel" or look in craft books.

## Resources

- Local news stations
- [weather.com](http://weather.com)