



Weather Conditions Lessons

Websites

[The Cat in the Hat: Weather Transformer](#)

Children learn more about weather on this fun, interactive website.
(<http://pbskids.org/catinthehat/games/weather-transformer.html>)

[National Weather Service](#)

The National Weather Service (NWS) web site provides direct access to weather forecasts and summaries for select cities, maps of NWS regions, storm predictions, and educational links.
(<http://www.weather.gov/>)

[USA Today](#)

USA Today provides a very informative site with links to graphics and explanations of numerous weather topics, from “air masses” to “winter weather.”
(<http://www.usatoday.com/weather/>)

[Temperature World](#)

This web site contains temperature-related links of humorous or general interest, including “Fahrenheit’s thermometer” and “the origin of the Celsius temperature scale.”
(<http://www.temperatureworld.com/gi.htm>)

[USA Today: Understanding Water in the Atmosphere](#)

From the USA Today weather web site, this page provides links that explain water in the atmosphere, including information about clouds and fog, evaporation and condensation, humidity, rain, and snow.
(<http://usatoday30.usatoday.com/weather/wwater0.htm>)

[Clouds and Precipitation](#)

This is a module from the University of Illinois’ WW2010 online meteorology guide. With photos and careful text, it offers sections on the development of clouds and precipitation; cloud types; and precipitation types including rain, snow, hail, sleet, and freezing rain.
([http://ww2010.atmos.uiuc.edu/\(Gh\)/guides/mtr/cld/home.rxml](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/cld/home.rxml))



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Books

General Weather Books

Hot and Cold (It's Science)

By Sally Hewitt. (2000, Children's Press)

Simple text and photos illustrate the concepts of temperature.

Hot and Cold (Rookie Read-About Science)

By Allan Fowler. (1995, Children's Press)

Describes the meaning of temperature with clear text and illustrations.

How Artists See the Weather: Sun, Wind, Snow, Rain

By Colleen Carroll. (1996, Abbeville Press)

This book is a wonderful way to not only reinforce familiar weather concepts, but also to introduce art.

North, South, East and West (Rookie Read-About Science)

By Allan Fowler. (1993, Children's Press)

Gives a simple explanation of the four cardinal directions and tells how to use the sun to determine direction. Useful for the "Using a Compass" Skill Building Activity.

Sing a Song of Popcorn: Every Child's Book of Poems

Selected by Beatrice Schenk de Regniers, et al.; illustrated by nine Caldecott Medal artists. (1988, Scholastic Inc.)

Has a nice selection called "Mostly Weather" with watercolor illustrations by Marcia Brown.

Weather (Eyewitness Explorers)

By John Farndon. (1999, Dorling Kindersley Publishing)

Directs children to watch and understand the weather—for example, clouds, rain, snow, wind, a hot day—and do activities such as make their own barometer.



Weather Forecasting

By Gail Gibbons. (1993, Aladdin)

With straightforward text and colorful pictures, this behind-the-scenes look at a modern weather station answers the basic questions that kids ask most, and makes weather forecasting more fun and accessible than ever.

Weather: Poems for All Seasons (An I Can Read Book, level 3 for independent readers)

Selected by Lee Bennett Hopkins; illustrated by Melanie Hall. (1995. HarperCollins)

Short poems, clear text, and nice illustrations.

Weather Words and What They Mean

By Gail Gibbons. (1992, Holiday House)

Clear color drawings and explanations of weather words such as "temperature," "air pressure," "moisture," and "wind."

Sun

Shine, Sun! (Rookie Reader)

By Carol Greene; illustrated by Gene Sharp. (1983, Children's Press)

As a child talks to the sun, the reader can see some of the sun's happy effects.

The Sun

By Seymour Simon. (2001, Perfection Learning)

Describes the nature of the sun, its origin, source of energy, layers, atmosphere, sunspots, and activity.

The Sun's Day

By Mordecai Gerstein. (1989, Harper Collins Juvenile Books)

This picture book follows the sun's course across the sky over a day. Illustrations show shadows moving, and the story conveys a sense of time.



Sun Song

By Jean Marzollo; illustrated by Laura Regan. (1997, HarperTrophy)

Through rhyming text and acrylic paintings, animals and plants respond to the sun's changing light over the course of a single day.

Sun Up, Sun Down

By Gail Gibbons. (1987, Sandpiper)

Describes the characteristics of the sun and the ways in which it regulates life on earth. The simple illustrations help explain science concepts to children.