



Water Lessons

Websites

[The Cat in the Hat: Weather Transformer](http://pbskids.org/catinthehat/games/weather-transformer.html)

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

[Snowflake Photos](http://www.microscopy-uk.org.uk/mag/indexmag.html?http://www.microscopy-uk.org.uk/mag/artfeb00/eksnow.html)

An article on photographing snowflakes that includes some excellent snowflake photos.
(<http://www.microscopy-uk.org.uk/mag/indexmag.html?http://www.microscopy-uk.org.uk/mag/artfeb00/eksnow.html>)

[National Weather Service](http://www.weather.gov/)

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: Understanding Water in the Atmosphere](http://usatoday30.usatoday.com/weather/wwater0.htm)

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](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/cld/home.rxml)

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))

[Earth Guide Diagrams: Water Cycle](http://earthguide.ucsd.edu/earthguide/diagrams/watercycle/)

This interactive website allows students to manipulate the water cycle to learn where water exists, how it moves, and how it changes form.
(<http://earthguide.ucsd.edu/earthguide/diagrams/watercycle/>)



[StudyJams! – Water Cycle](#)

Water is constantly moving, but where does it go? Watch this three minute video and get the full story on the water cycle.

(http://teacher.scholastic.com/activities/studyjams/water_cycle/)

[The Water Cycle \(Environmental Protection Agency\)](#)

This fun, interactive website allows students to learn how water moves through the water cycle.

(http://www.epa.gov/ogwdw000/kids/flash/flash_watercycle.html)

[Droplet and the Water Cycle](#)

A fun, interactive website that challenges students to help a drop of water avoid pitfalls and predators while they navigate through several challenging levels of the water cycle.

(<http://kids.earth.nasa.gov/droplet.html>)



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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."

Clouds

The Cloud Book

By Tomie DePaola. (1984, Holiday House)

Introduces the ten most common types of clouds, the myths that have been inspired by their shapes, and what they can tell us about coming weather changes. A good book for reading aloud.

Clouds (Weather)

By Gail Saunders-Smith. (2000, Capstone Press)

Part of a series of books about the weather; introduces the most important attributes of clouds. A bilingual Spanish edition is available in 2004 from Pebble Books.

It Looked Like Spilt Milk

By Charles Shaw. (1992, HarperFestival)

The white shape silhouetted against a blue background changes on every page. Is it a rabbit, a bird, or just spilt milk? Children are kept guessing until the surprise ending. With repetitive rhymes, the book is easy for children to memorize and "reread."



Nature: Poems Old and New

By May Swenson and Susan Mitchell. (2000, Mariner)

Excellent collection of poems. "The Cloud Mobile" poem, in particular, creates beautiful imagery of clouds.

What Do You See in a Cloud? (Rookie Read-About Science)

By Allan Fowler. (1996, Children's Press)

Color photos illustrate simple descriptions of the shapes and types of clouds.

Snow and Ice

Little House in the Big Woods

By Laura Ingalls Wilder; illustrated by Garth Williams. (2005, HarperFestival)

First book in the Laura Years series. Laura lives with Pa and Ma and her sisters in a snug little house built of logs. Too advanced for beginning readers; however, the chapter "The Sugar Snow" is appropriate for reading aloud and setting a mood in the classroom. In the chapter "Dance at Grandpa's", the Ingalls family makes candy with hot maple syrup and snow.

Skating on Thin Ice (First Start Easy Reader)

By Louise Everett; illustrated by Richard Max Kolding. (1997, Troll Associates)

In this easy-to-read story, Rosie the elephant and her friend Joe enjoy ice-skating until Joe falls through the ice.

Snowflake Bentley

By Jacqueline Briggs Martin; illustrated by Mary Azarian. (2009, Sandpiper)

The 1999 Caldecott Medal-winning biography of Wilson Bentley, a Vermont farm boy who grew up to become a world-famous snowflake expert and one of the first to successfully photograph snowflakes. Blends beautiful woodcuts, storybook text, and factual sidebars.

The Snowy Day

By Ezra Jack Keats. (1981, Viking Press)

A 1963 Caldecott Medal winner, this is a simple and graphically beautiful tale of a boy in the city who wakes up to discover that snow has fallen during the night. Also available as an audio CD.



Water as a Solid

By Helen Frost. (2000, Capstone Press)

Simple text presents facts about water in its solid state, its properties, and its uses. A bilingual Spanish edition is also available.

Winter Rescue

By W.D. Valgardson; illustrated by Ange Zhang. (1995, Margaret McElderry)

While helping his grandfather, an ice fisherman on Lake Winnipeg, Thor spots a man who has driven his snowmobile through a weak patch of ice.

Water Cycle

Down Comes the Rain

By Frank Branley. (1997, HarperTrophy)

This book provides an excellent introduction to weather and the water cycle.

A Drop Around the World

By Barbara Shaw McKinney; illustrated by Michael S. Maydak. (1998, Dawn Publications)

Through rhyming text and full-color illustrations, children follow an anthropomorphized "drop" on its travels around the world in solid, liquid, and vaporous states.

Follow a Raindrop: The Water Cycle (Super Science Readers)

By Elsie Ward. (2000, Scholastic)

A drop of water and a little girl visit and re-visit each other as the drop goes through the water cycle.

The Magic School Bus: At the Waterworks

By Joanna Cole; illustrated by Bruce Degen. (1988, Scholastic)

Ms. Frizzle drives the magic school bus into a cloud, where the children shrink to the size of water droplets and follow the course of water through the city's waterworks.



The Magic School Bus Wet All Over: A Book About the Water Cycle

By Joanna Cole; illustrated by Bruce Degen. (1996, Scholastic)

Ms. Frizzle and the class evaporate, condense into a rain cloud, and drizzle down upon the earth. A Spanish edition is also available.