



Websites Kindergarten - Weather

AfterSchool KidzScience

<http://www.lawrencehallofscience.org/kidsite/collections-2/afterschool-kidzscience/>

K;1st;2nd;3rd;4th;5th

Website Types: Teacher Activities;Teacher Background;Teacher Videos

This webpage offers a range of science kits designed for afterschool programs. These could certainly be used in the general classroom as well. At the bottom of the page is a series of videos on teaching strategies and how to use the kits. Valuable whether you are using the kits or not.

Challenger Center for Space Science Education

<https://www.challenger.org/stem-resources/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Online Activities;Teacher Activities

Using space exploration as a theme, the Challenger Center web site offers a large searchable database of hands-on lessons related to the solar system and earth sciences, as well as podcasts, webcasts and interdisciplinary design challenges to do in your classroom.

Cool the Earth

<http://www.cooltheearth.org/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Student Online Activities;Teacher Activities;Teacher Background

Cool The Earth is a ready-to-run program that educates K-8 students and their families about global warming and inspires them to take simple actions to reduce their carbon emissions. The program is successful because it's fun and empowering for the kids, and their enthusiasm is contagious! Includes assemblies, website tools, lesson plans

Disappearing Water

<https://eduref.org/lessons/science>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities

Science lessons at every grade level and topic

Edu Place - Weather Activities

http://www.eduplace.com/cgi-bin/searchengine.cgi?SEARCH=Weather&WORD_POINTS=0,1,0,0

K;1st;2nd;3rd;4th;5th

Website Types: Teacher Activities

17 grade-level activities about weather observation and weather science from Houghton Mifflin's on-line library of classroom activities. Check their index for activities in other subjects too!

From Windmills to Whirligigs

<http://www.smm.org/sln/vollis/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Activities

Books, photographs, activity ideas and lots of stuff related to Vollis. Wheeling and Whirling Around, Mirandy and Brother Wind, bearings, wind power, pinwheels, shoebox, pop bottle whirler, photo album, Constructions for Kids, Signs and Wonders, pneumatic motion machines, From Windmills to Whirligigs.

GLOBE

<http://www.globe.gov>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Online Activities;Teacher Background

GLOBE encourages students to utilize on-line data to help answer questions about how the environment around them works. Through investigation projects students do science, learning the importance of creating hypotheses, analyzing data, drawing conclusions and reporting their results.

How Fast is the Wind

<http://www.lawrencehallofscience.org/kidsite/portfolio/how-fast-is-the-wind/>

K;1st;2nd;3rd;4th;5th

Website Types: Student Background;Student Online Activities;Teacher Activities

To get energy from the wind, the wind has to blow fast enough. Measure wind speeds near your home or school by making a spinning anemometer. When does the wind blow fastest or slowest? Enter measurements online and compare them to wind speeds across the country.

HowToSmile.org

<http://howtosmile.org/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities;Teacher Background;Teacher Videos

Are you looking for new ways to teach kids about math and science? Do you want activities that meet you where you live, whether your "classroom" is an active volcano, the shark tank at the local aquarium, or your own kitchen table? You've come to the right place. SMILE is collecting the best educational materials on the web and creating learning activities, tools, and services – all designed especially for those who teach school-aged kids in non-classroom settings. We are a group of science museums dedicated to bringing science, technology, engineering, and math (STEM) out of the academic cloister and into the wider world. Our organizations are resource hubs for educational programs that involve people of all ages and backgrounds. Together we're gathering the best STEM education materials from the web, and encouraging educators to both use and contribute to the growing collection

Kindergarten STEM Unit: Weather

<https://www.carroll.kyschools.us/7/Content2/3786>

K

Website Types: Teacher Activities

Produced by Carrol County Schools. has lesson ideas and links to additional resources for teaching weather with Kindergarten

National Atlas

https://nationalmap.gov/small_scale/

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background

This is a site that contains all kinds of data in map form. Geology, history, biology, political boundaries, environment, climate. You can print some maps yourself, order others, and use many online.

National Geographic Xpeditions

<http://education.nationalgeographic.com/education/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background

Activities and lesson plans are sorted by grade and geography standard, and relate to different science standards. Free Xpeditions Atlas has hundreds of black-line masters optimized for overhead transparencies, activities, lesson plans, and student reports. Parents: Visit 'For Parents' section of site.

National Oceanic and Atmosphere Administration-Education Resources

<http://www.education.noaa.gov/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Background

NOAA's many educational activities are distributed across the agency. This site has been designed to help students, teachers, librarians and the general public access the many educational activities, publications, and booklets that have been produced about weather and ocean. Links to educational websites divided into K-5, 6-12 and teachers.

Old Farmer's Almanac for Kids

<http://www.almanac4kids.com/weather/index.php>

K;1st;2nd;3rd;4th;PK

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background;Teacher Videos
This website is designed for elementary school students to look at weather forecasts, astronomy and backyard animals. You can easily switch between locations to look at other areas of the country.

Paso Partners Bilingual Instruction

<http://www.sedl.org/scimath/pasopartners/>

K;1st;2nd;3rd;4th;5th

Website Types: Teacher Activities;Teacher Background

The resource is designed to help elementary school teachers organize their classrooms and instructional activities in order to increase achievement of Hispanic primary-grade children whose first language is not English. The guides offer a curriculum plan, instructional strategies and activities, suggested teacher and student materials, and assessment procedures. Bilingual lessons on Five Senses, Spiders, Dinosaurs, Plants & Seeds, Human Body, Health, Oceans, Weather, Matter, Sun & Stars, Sound, Simple Machines.

PBS Design Squad

<http://pbskids.org/designsquad/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Student Background;Student Online Activities;Teacher Activities;Student Videos

This website has activities for kids to do. Design Challenges, videos and more.

Physical Sciences K-8: Wave Energy Units

<http://www.compadre.org/precollege/static/unit.cfm?sb=8&course=1>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Teacher Activities;Teacher Background

Examples of all types of waves are found in nature. Our understanding of the physical world is not complete until we understand the properties and behaviors of waves. Mechanical waves require a material "medium" through which to travel, electromagnetic waves do not.

Physics.org

<http://www.physics.org/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background

The feature "Physics Life" lets you explore and home and a school and more to see what the physical concepts are behind everyday objects. Click on the dialog box that pops up and you will be sent to a list of links with more activities and background for that particular topic. You are supposed to register for this free site, but I was able to use many of the features without doing that.

Pizza Box Solar Oven

<http://www.hometrainingtools.com/build-a-solar-oven-project/a/1237/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Activities;Teacher Background

Instructions on how to make a pizza box solar oven.

Practical Uses of Math and Science (PUMAS)

http://pumas.jpl.nasa.gov/examples/index.php?order_by=grade

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities;Teacher Background

The PUMAS examples are aimed primarily at helping pre-college teachers enrich their presentation of topics in math and science. You may find a number of examples that relate to your area of interest, perhaps written in different styles, and possibly taking different approaches to the material. There may also be comments/lesson plans filed with some of the examples, written by previous users. Use these examples as a resource -- Select, adapt, recontextualize, and present the material to your students in a way that you judge will best meet your students' needs, abilities, and interests.

Project First Weather Journal

<http://cse.ssl.berkeley.edu/first/EyeontheSkyWeatherJournal/>

K;1st

Website Types: Student Online Activities

Explains that weather changes daily and seasonally, affecting us all. Student oriented website to learn about weather changes and observation. Includes picture recognition, weather words, and the option of printing out their very own weather journal from the results of their web activity.

Project NEED

<http://www.need.org>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities;Teacher Background

The National Energy Education Department (NEED) provides curriculum guides and activities online and helpful energy saving information. Look for the curriculum guide for teaching Greek Mythology and the Forms of Energy and an energy songbook. Kids information on energy and links to other energy websites.

Save on Energy Kids Room

<https://www.saveonenergy.com/kids-learning-center/>

K;1st;2nd;3rd;4th;5th;TK

Website Types: Student Background;Student Online Activities;Teacher Activities

information on how kids can save energy and go green at home and school.

Science for Kids - Geography

<http://www.sciencekids.co.nz/geography.html>

K;1st;2nd;3rd;4th;5th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background;Student Videos;

The Geography page on Science for Kids has games, experiments, images, videos, facts, lessons and activities on subjects such as weather, volcanoes, earthquakes, rocks, fossils

For videos go to <http://www.sciencekids.co.nz/videos/earth.html>

Scientists @ the Smithsonian

<http://www.smithsonianeducation.org/scientist/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Background

Scientists aren't just nerds who wear lab coats. All kinds of people become scientists. And scientists do all kinds of things. Watch and read about these scientists at the Smithsonian. What kind of scientist would you like to be?

Solar Cooking

<http://solarcooking.org/plans/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background

Anything and everything you could ever want to know about solar cooking. :Lots of different kinds of plans. Try to few to see which works best.

Solar Energy International

<http://www.solarenergy.org/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Background

This site provides nice information and a background to solar energy. Many links to other sites that specialize in different aspects of energy production or use.

SunWise

<http://www.epa.gov/sunwise>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Teacher Activities;Teacher Background

To help educators raise sun safety awareness, the U.S. Environmental Protection Agency (EPA) has developed the SunWise School Program for grades K-8. SunWise Partner Schools sponsor classroom and school-wide activities that raise children's awareness of stratospheric ozone depletion, UV radiation, and simple sun safety practices. When you sign up to be a Sunwise school, you can share data online with other individuals. Your kit will include lessons, a UV-sensitive Frisbee, and the On the Trail of the Missing Ozone comic book. Registered SunWise Partner Schools can enter daily UV forecast and intensity data, map and graph data online!

The Weather Dude

<http://www.wxdude.com/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Student Background;Student Online Activities;Teacher Activities;Teacher Background

Welcome to the weather page especially for kids, parents and teachers from weather forecaster Nick Walker. Explains that weather changes daily and seasonally, affecting us all. Great links to other kids weather sites.

WatchKnowLearn.org

<http://www.watchknowlearn.org/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Background;Student Videos;Teacher Videos

This website has free educational videos on all topics (including science) for all age levels. There is specifically a section for younger learners.

Weather One

<http://urbanext.illinois.edu/treehouse/>

K;1st;2nd;3rd;4th;5th;6th;7th;8th

Website Types: Teacher Activities;Teacher Background

Lessons for Elementary students about clouds, seasons, air pressure, winds, global warming, and violent weather

What Season is it?

<http://www.teachersdomain.org/resource/evscps.sci.ess.weat.seasons/>

K;1st;PK

Website Types: Student Online Activities

This interactive video/game from Teacher's Domain has students looking for clues in pictures as to what season is being represented.