Teacher Web Site Resources

If you are not able to access a web site please drop us an email.
Dakota.Science@gmail.com

Audubon Adventures - an award-winning environmental education program can be implemented in any classroom or after-school program. [http://education.audubon.org/audubon-adventures](http://education.audubon.org/audubon-adventures)

Celestia - space simulation that lets you explore our universe in three dimensions. Celestia runs on Windows, Linux, and Mac OS X. Celestia comes with a large catalog of stars, galaxies, planets, moons, asteroids, comets, and spacecraft. If that's not enough, you can download dozens of easy to install add-ons with more objects. [http://www.shatters.net/celestia/](http://www.shatters.net/celestia/)

Coalition for Conservation and Environmental Education (C2E2)  
Environmental educational teaching cards and other resources.

Common Sense Media free program to help educators navigate and discuss the impact of digital media on kids' social, emotional, and intellectual development. Using resources based on the K-12 Digital Literacy and Citizenship Curriculum, educators and parents, together, can teach children digital literacy.  
[http://www.commonsensemedia.org/educators/curriculum](http://www.commonsensemedia.org/educators/curriculum)

Curiosity Cabinet ( A Scientist's Curiosity Cabinet)  
Dr. T. Ross Kelly - Over the past 25 years I have accumulated a collection of various gizmos, devices, toys etc. which to me are excellent examples of scientific principles. In the hope that others may also find them interesting and with the help of two undergraduates, Jacy Lundberg and Omar Khan, we have created videos of many of the items in the collection. In many cases we have tried to include explanations of how they work or references to where one can find this information.  
[https://sites.google.com/a/bc.edu/curiosity-cabinet/home](https://sites.google.com/a/bc.edu/curiosity-cabinet/home)

Earth Labs  
Teaching units that offer sequences for learning science concepts through hands-on experiments and data analysis. Using satellite imagery, numerical data, computer visualizations, and video, students explore Earth system processes and build quantitative skills that enable them to objectively evaluate scientific findings for themselves.
Eco-Health Relationship Browser illustrates scientific evidence for linkages between human health and ecosystem services—benefits supplied by Nature. This interactive tool provides information about several of our nation’s major ecosystems, the services they provide, and how those services, or their degradation and loss, may affect people.  

http://enviroatlas.epa.gov/enviroatlas/Tools/EcoHealth_RelationshipBrowser/introduction.html

e-cybermission is a free web-based STEM competition for grades 6-9 that promotes self-discovery and enables participants to recognize the real life applications of STEM disciplines. (A part of the Army Educational Outreach Program) www.ecybermission.com or call 866-462-9237

Frontiers in Neuroscience for Young Minds is a scientific journal that includes young people (from 8 to 15) in the review of articles. This has the double benefit of bringing kids into the world of scientific research – many of them for the first time – and offering active scientists a platform for reaching out to the broadest of all publics.  

http://kids.frontiersin.org/

Howard Hughes Medical Institute  
Bulletin on-line high school/college reading level  
http://www.hhmi.org/bulletin

Mathtionary – Math Glossary from Raytheon  
http://www.mathmovesu.com/teachers-and-parents/mathtionary

Math Practice Work Sheets from Raytheon  

My Sustainable House  
http://www.mysusthouse.org/  
My Sustainable House is an exciting interactive game exploring what sustainability means and how it relates to our homes. It provides a resource for meaningful and effective learning and teaching opportunities relating to sustainable development across the curriculum. The material can be used in many ways, either for individual use or as part of a group activity. The game activity lasts 25-35 minutes. As well as providing interesting information, it stimulates discussion, presents problem-solving activities and provides a context for teamwork and decision-making. The site has been designed for use in Science, Geography, Art and Design and Technology and teachers’ notes have been developed to be
applicable across these subjects. However the game could also be adapted to be of use in other subjects.

NASA Art & the Cosmic Connection is an interdisciplinary program developed by scientists, artists & educators to encourage learners to explore the mysterious worlds in our solar system and their geologic stories. http://discovery.nasa.gov/art/

NASA Technology Innovation, NASA Ask and other magazines are available free from the iTunes store.

NASA Planetary Photojournal
http://photojournal.jpl.nasa.gov/

NASA’s Space Place
http://spaceplace.nasa.gov

National Park Service
These offerings bring you glimpses of nature and science through audio and video. Explore videos about a National Park Service icon, George Melendez Wright; ocean ecology; and biodiversity with Dr. E.O. Wilson. Check back often, as our multimedia content will continue to grow. http://nature.nps.gov/moviespodcasts.cfm

National Science Teachers Association and BAM Radio Network have partnered to bring you NSTA Radio. Dr. Francis Eberle, NSTA's Executive Director, hosts the program that will focus on the big issues involved in teaching science. http://www.bamradionetwork.com/


NOAA Weather for teachers
http://scijinks.jpl.nasa.gov/teachers

North Dakota Envirothon
The North Dakota Envirothon is a problem-solving natural resource competition for high school students. Students receive real life, hands-on training in the areas of forestry, soil, water, wildlife and a
current environmental issue. Natural resource professionals, dedicated citizens and teachers offer their time to work with these students to develop the critical thinking skills necessary to make wise decisions in the future concerning natural resource and environmental issues. Team training usually takes place throughout the entire school year. While learning about natural resources, their benefits and a variety of environmental issues, students also develop communication skills and build conservation partnerships. Students learn the skill of working and thinking as a team to assess natural resource issues affecting the environment. They learn to consider each other's opinions and rely on the strengths of their team members. The result is students who become enthusiastic, environmentally aware, action-oriented decision makers of the future.

In the late spring, each school selects a team of five students and one alternate to represent their school at the state ND Envirothon competition in May. Young minds love a challenge, especially one that involves the environment. The idea of matching wits with their peers stimulates, inspires and excites while being competitive and having fun. North Dakota made a 15-minute "ND Envirothon" video that is free on loan to view or show to your school or an organization.

Contact: Diane Olson, (701) 845-1674 or diane.olson41@gmail.com
North American Envirothon www.envirothon.org

North Dakota Forest Service http://www.ndsu.edu/ndfs/
Project Learning Tree
http://www.ndsu.edu/ndfs/prek_12_educators_and_youth/
To participate in a class contact Glenda.Faiske@ndsu.edu.

NSTA Book List http://www.nsta.org/publications/ostb/
The books that appear in these lists were selected as outstanding children’s science trade books. They were chosen by a book review panel appointed by the National Science Teachers Association (NSTA) and assembled in cooperation with the Children’s Book Council (CBC).

Prairie Waters Education and Research Center
Valley City State University, ND.
Digital Key to Aquatic Insects of ND This key (with photos) covers insects that live on or in the rivers & streams of ND. http://www.waterbugkey.vcsu.edu/
Digital Key to Freshwater Invertebrates of ND. This key (with photos) covers invertebrates that live on or in the rivers & streams of ND. http://www.ndfreshwaterinverts.vcsu.edu/
Rainforest Alliance Learning Site offers curricula and resources to help students understand how rainforests contribute to our collective well-being. http://www.rainforest-alliance.org/curriculum

Sally Ride EarthKAM
Guide your students in hands-on research as they program a camera aboard the International Space Station to take pictures of specific locations on Earth. The optional online curricula at the Sally Ride EarthKAM website are targeted at middle school students but are adaptable for other grade levels. For more information and to register for an upcoming mission, visit the Sally Ride EarthKAM home page at https://earthkam.ucsd.edu/. If you have questions about the EarthKAM project, please email ek-help@earthkam.ucsd.edu.

Star Date
Do you want to incorporate astronomy into your science curriculum? Use dynamic lesson plans to build engaging classroom lessons and activities using the many audio and video resources from StarDate Online. http://stardate.org/teachers/plans


University of Utah Health Sciences - videos that provide good reviews of science topics. http://learn.genetics.utah.edu/
Videos that provide a good overview of probability, statistics and modeling. http://learn.genetics.utah.edu/content/math/