Websites

Second Grade Earth Science

A Stream Table Makes a Miniature Stream
http://www.watersheds.org/earth/streamtable.htm
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Types:** Student Background; Teacher Background
This site has some nice photos of different river formations modeled in the stream table and real life. Has good vocabulary links.

Ask A Biologist - Arizona State University
http://askabiologist.asu.edu/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Types:** Student Background; Student Online Activities; Teacher Activities; Teacher Background; Worksheets; Teacher Backround
Ask A Biologist began in 1997 in the School of Life Sciences. The site continues to be developed, and maintained by a dedicated group of volunteers. It is designed as an educational resource for students preK-12, and their teachers and parents. Ask A Biologist is visited by over 9,000 people every day and has answered more than 30,000 questions.

Bay Area Geology
http://lpc1.clpccd.cc.ca.us/lpc/hanna/locllinks.htm
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Types:** Teacher Activities; Teacher Background
Links to Bay Area and California geology information websites and maps, including one that maps the relative seismic shaking in different parts of the bay area. Also includes earthquake resources.

Brain Pop - Mountain Types
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

**Website Types:** Student Background; Student Online Activities; Teacher Background
Animated video of the different kinds of mountains and how they are formed.

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.
Composting in Schools
http://compost.css.cornell.edu/schools.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Types: Teacher Activities; Teacher Background
Includes information under: Why Composting? • Teacher's Page • Ideas for Student Research Projects • Compost Quiz • Science and Engineering • Composting Indoors • Composting Outdoors • Weird and Unusual Composting • Frequently Asked Questions • Glossary

Create Your Own Trace Fossil
K;1st;2nd;3rd;4th;5th;6th;PK
Website Types: Teacher Activities
Museum of Science lesson plan on creating your own trace "fossil".

Creating Fossil Impressions
http://education.nationalgeographic.com/education/activity/fossil-impressions/?ar_a=1
K;1st;2nd;3rd;4th;5th;6th;PK
Website Types: Teacher Activities
National Geographic Lesson plan on creating your own "fossil" impressions

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

Enchanted Learning "Label Me" Printouts
http://www.enchantedlearning.com/label/
K;1st;2nd;3rd;4th;5th;6th;7th;8th
Website Types: Student Background; Teacher Activities
This Web site contains elementary-level diagrams on many subjects which may be printed out and labeled for practice. The diagrams come with a word bank, complete with definitions printed on the same page. Diagrams are available, including the human eye, ear, brain, skeleton, teeth, plant parts, animals and insects, geology and weather. Some diagrams also available in French, German, Italian, or Spanish.

Engineering Adventures
http://eie.org/engineering-adventures/curriculum-units
K;1st;2nd;3rd;4th;5th;PK
Website Types: Student Background; Student Online Activities; Teacher Activities; Teacher Background; Student Videos
Engineering Everywhere is a FREE engineering curriculum for elementary level students. Choose from seven units with fun, hands-on engineering design challenges based on real events around the world

EPA Ecosystems Teaching Resources
https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Types: Student Background; Student Online Activities; Teacher Activities; Teacher Background
links to a wide variety of teaching resources; curriculum and lesson plans; on-line data projects, etc.
Green Schoolyard Resource Directory

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

Website Types: Teacher Background
Green Schoolyard Resource Directory for the San Francisco Bay Area For schools, parents, teachers, students, designers, and community members in San Francisco and around the Bay Area.

Growing Minds - Farm to School

http://growing-minds.org/lesson-plans/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Activities;Teacher Background
This site has a nice selection of activities and resources about how to create and use a school garden and its bounty

Hayward Fault: Predictable Peril

http://science.kqed.org/quest/video/the-hayward-fault-predictable-peril/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background;Teacher Background
11 minute video from KQED QUEST on the 1868 Hayward Earthquake. Good history connections and the basics about how earthquakes happen.

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.

K-12 Soil Science Teacher Resources

http://www.soils4teachers.org/home
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities;Teacher Background
Online resources from the Soil Science Society of America. Includes links to lesson plans, background information about the science of soil, connections between the land and people, soils around the world and more.

Learning from the Fossil Record

http://www.ucmp.berkeley.edu/fosrec/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Activities;Teacher Background
An extensive website with an online educational exhibit section to teach about geologic and evolutionary history, and the diversity of life. Also includes activities aligned to science standards related to fossils and extinction.
My Garbology
http://www.naturebridge.org/garbology
K;1st;2nd;3rd;4th;5th
Website Types: Student Background;Student Online Activities;Teacher Activities
Website is designed Naturebridge to introduce the ins and outs or recycling and composting. Online games for students and lesson ideas for teachers

NASA Wavelength
http://nasawavelength.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Types: Student Background;Teacher Activities;Teacher Background
NASA Wavelength is your pathway into a digital collection of Earth and space science resources for educators of all levels – from elementary to college, to out-of-school programs. These resources, developed through funding of the NASA Science Mission Directorate (SMD), have undergone a peer-review process through which educators and scientists ensure the content is accurate and useful in an educational setting. Use NASA Wavelength to quickly and easily locate resources, connect them to other websites using atom feeds, and even share the resources you discover with others through social media and email.

National Geographic - Volcano
K;1st;2nd;3rd;4th;5th
Website Types: Student Background;Teacher Background
National Geographic has lots of images and background information on volcanoes. Free registration is required to access all their information.

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 Science Digital Library
http://nsdl.org/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th
Website Types: Student Online Activities;Teacher Activities;Teacher Background
This website is a huge resource for finding activity ideas, videos, photos and news about science and technology. They have a section specifically devoted to K-12 teachers.

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.

1/10/2019 Websites are an excellent place for finding activity ideas.
Photos of Sand from Different CA Beaches
http://www.coastal.ca.gov/publiced/sand/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background; Teacher Background
Photos of Sand from Different CA Beaches and others from around the world. Allows you to see scale of size of grains and diversity of rock types

QUEST Exploration - Mt Diablo State Park
http://www.kqed.org/quest/exploration/mt-diablo-state-park-exploration
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background; Student Online Activities; Teacher Background
This virtual fieldtrip of Mt. Diablo State park is a nice introduction to the geology and habitat of the park. It would be a good pre-fieldtrip activity.

Science and Nature Videos from Hidden Villa
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Videos; Teacher Videos
To assist educators in teaching science concepts we have developed 30 short videos that can help build students' life science knowledge and retention. Each video is a demonstration of a standard from the new NEXT GENERATION SCIENCE STANDARDS, but you can use them right now with your current curriculum. Teachers can use these short videos to:
* Introduce a concept
* Get students excited to learn about science
* Stimulate class discussion and exploration
* Show students real world examples

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?

Spark - Weather and Atmospheric Science Classroom Activities
https://spark.ucar.edu/activities
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

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

Websites are an excellent place for finding activity ideas.
Website includes K-12 classroom activities for the following topics: Weather, Climate Change, Sun-Earth Connections, and Atmosphere and Chemistry.

Spark engages people in the wonder and relevance of science. We focus on scientific literacy, workforce development, and community engagement. Our overarching goal of this plan is to make an impact on public understanding of atmospheric science concepts and process. Atmospheric and related sciences includes not only sciences associated with advancing understanding of the Earth--Sun system, but also the computational and engineering sciences and technology that afford those advances.

**The Adventures of Herman**

http://www.urbanext.uiuc.edu/worms/index.html

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

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

Has audio in both English and Spanish that allows the site to be used by younger students. Squirmin' Herman the Worm teaches students all about worms and how to make their own worm bin in this new interactive curriculum. The Teacher guide section of the website has good ideas about activities with insects for the classroom

**The Gateway to Educational Materials**

http://www.thegateway.org/

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

**Website Types:**  Teacher Activities;Teacher Background

GEM is sponsored by the U.S. Department of Education and is a special project of the ERIC Clearinghouse on Information & Technology. Teachers, parents, administrators can search or browse The Gateway and find thousands of high quality educational materials, including lesson plans, activities, and projects from over 200 GEM Consortium member sites: Has activities on habitat as well as many other subjects.

**UCMP online exhibits - Welcome to the Geology Wing**

http://www.ucmp.berkeley.edu/exhibit/geology.html

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

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

Exploring this series of exhibits will take you on a journey through the history of the Earth, with stops at particular points in time to examine the fossil record and stratigraphy. The Geology Wing is organized according to the geologic time scale.

**University of California Berkeley Library Digital Image Finder**

http://cluster4.lib.berkeley.edu:8080/ERF/servlet/ERFmain?cmd=searchResType&resTypeId=14

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

**Website Types:**  Teacher Activities;Teacher Background

Use this site to find images from a myriad of topics.

**USGS Learning Web**

http://education.usgs.gov/common/primary.htm

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

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

Includes Lesson Plans and Activities, Paper Models, and Educational Materials in topic areas such as the Changing World, Volcanoes, Working with Maps, Earth Hazards, Earthquake Effects, and Helping Your Child Learn Geography. Also has maps and rock images, and real time information.
Using a Stream Table to Investigate Erosion Control

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

Website Types: Teacher Activities; Teacher Background
Lesson on modeling erosion using a stream table.

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.

White Glue Fossils
http://www.uky.edu/KGS/education/white_glue.htm
K;1st;2nd;3rd;4th;5th;6th;PK

Website Types: Teacher Activities
Lesson plan on creating your own while glue "fossil".

Windows to the Universe
http://www.windows2universe.org/
2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background; Student Online Activities; Teacher Activities; Teacher Background
Extensive website of all areas of earth science. Lots of nice images. Games, worksheets and puzzles. Some real data on atmospheric science. You can use the free version with advertizements scrolling at top or sign up for membership with no advertizements.

Worm Digest
http://www.wormdigest.org
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background; Teacher Background
How earthworms are used in waste management and sustainable agriculture. Current information and valuable resources for individuals, communities, businesses or educators, who are interested in learning more about worms and vermiculture.

Worm Man Wormfarm
http://www.wormman.com/
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Teacher Background
You can purchase worm books, worm bins and worms from a real worm farm. They also sell educational kits that show, for example, how to recycle organic kitchen waste into nutrient-rich garden fertilizer.

Zoom Dinosaurs
http://www.enchantedlearning.com/subjects/dinosaurs/index.html
K;1st;2nd;3rd;4th;5th;6th;7th;8th;9th;10th;11th;12th

Website Types: Student Background; Student Online Activities; Teacher Activities
Resources, activities, and background information on dinosaurs. Read about famous paleontologists and learn how to become one! Read dino fact sheets and find out when and where a particular species lived, how big it was and what it ate. Print out line illustrations to color, or learn how to make paper finger puppets. Lots of dinosaur activities here!

1/10/2019 Websites are an excellent place for finding activity ideas.