

Secondary Science Websites

<http://www.doe.gov/>

The department of Energy website provides information geared for students in the upper grades. Energy Efficiency, Energy Sources, and the Environment, are some of the categories provided in this website. Refer to “Quick Clicks for Students and Kids” to view kids’ pages and additional recommended science websites.

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

This website provides an abundance of information and additional website links for more specific science topics. Resource materials include articles and photographs. Botany and Zoology Science, Physical Science and Environmental Science are just a few examples of the categories to explore on this website.

<http://solar-center.stanford.edu/>

This site focuses on the sun and solar science topics. It is geared for grades 4-12 and provides an abundance of information. Videos, photographs, and student activities are some of the resources available. Connections to Solar Folklore, Solar Images and Literature are also provided on this site.

<http://www.woodlands-junior.kent.sch.uk>

This is a school developed website which provides interactive games and activities for a variety of subjects. The three categories in science include; the Living World, Material World, and the Physical World. Within each of the categories, viewers can explore scientific facts as well as link to additional sites on a specific topic.

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

This website is a wonderful resource for secondary students as well as teachers. Students can use this website as a reference to find science project ideas on a variety of science topics. Using the difficulty scale, students can choose projects appropriate for their grade level. Science Buddies also provides great teacher resources to assist in managing science projects.

<http://www.pitt.edu/~poole/physics.html>

This is secondary resource for science topics with an emphasis on Physics. Specific science topics are listed with sub-categories which will connect to additional links to obtain more detailed information. These website links can be resourceful for teachers and students.

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

This website focuses on world records in science for the categories of Space, Animal Kingdom, and Earth Science. Key science concepts explain each of the records and a variety of videos are also available. Extreme science can be a science project resource for students in the upper elementary grades and secondary level. Teachers can refer to this website for science content when preparing lessons.

<http://apps.exploratorium.edu/>

The Exploratorium provides a collection of interactive activities and programs for a variety of science topics. Students can participate in hands-on activities, view web casts, and access more information through the additional links provided. This website is geared for students in grades 3-12.

Elementary Science Websites

<http://www.sciencea-z.com>

This is an interactive science website for grades K-6. Science themes are presented with a variety of resources which reinforce each specific theme. Resources include vocabulary cards, worksheets, and leveled text. This website does require a paid subscription and prices vary depending on the number of classrooms being served.

<http://www.bbc.co.uk/schools/ks2bitesize/science/>

This is an interactive website for grades K-5 which provides three categories in science. They include; Living Things, Physical Science, and Materials/States of Matter. Each one of the categories provides an interactive activity, a revision bite, and a quiz.

Science Websites for All Ages

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

This website includes materials which focus on specific topics in science and social studies for all ages to enjoy. A variety of resources include; interactive games, videos, and website links. This website is a wonderful resource for students to explore at home. Parents Choice recommended Winner for 2008.

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

This science website provides a large quantity of information varying from health to traffic reports. This site can access weather information from different locations in the United States as well as provide international weather links.

<http://weather.weatherbug.com/>

This website can be used by educators and students in K-12, to access live streaming weather reports locally and internationally. Using the Activity Explorer Tool, teachers can find lessons categorized by topics, grade level and state standards. Weatherbug also provides interactive lessons to teach math, technology, and geography.

<http://www.topmarks.co.uk/>

Age appropriate science categories include interactive activities and quizzes. Additional links provide on-line lessons and worksheets which are correlated to interactive activities within specific science topics. This site is also a free interactive whiteboard source.

www.rpdp.net

This website is a wonderful resource for teachers. It includes lesson plans and smart board files for multiple subject areas. Science resources are divided by elementary, middle, and high school levels. The TIPS site provides information specified for particular benchmarks which can be useful to prepare students for the HSPE. Additional links are also provided for each subject area.

<http://www.youth.net/>

This website provides mini-lessons for science topics ranging from the elementary level through high school. Additional website links as well as teacher resources are also available.

<http://www.learner.org/interactives/parkphysics/>

Interactive lessons focusing on specific science topics include manipulative visuals with definitions of content vocabulary. The “Interactives” category focuses on secondary science topics which students can view, manipulate, and test their knowledge. Additional links are provided in each category.

<http://www.surfnetkids.com/directory/Science/>

This website provides additional links for science topics and can direct students to other academic sites. Children of all ages can explore this site to find science project ideas, games, and a variety of activities.

Secondary Math Websites

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

This website provides access to on-line lessons (virtual whiteboards) and test preparations for middle and high school students. Paid membership is required. Tutoring is also available for an additional charge.

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

This is an interactive and animated math website. Lessons, interactive games, and puzzles for ages 13 and up are fun and entertaining. An on-line math dictionary will assist in locating math formulas, definitions, and examples. Additional links to other Coolmath sites are also available.

<http://www.purplemath.com/modules/index.htm>

Algebra resource for teachers and students. Multi-level algebra lessons for beginning, intermediate, and advanced concepts. Solving Word Problems and Appendix categories are also available on this website.

<http://www.freemathhelp.com/algebra-help.html>

Free, secondary level math resource website for teachers and students. Great for home reinforcement of algebraic concepts. Step by step text lessons and video lessons are available for specific algebra problems.

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

This website is an algebra resource for students at the secondary level. Examples of algebra problems are modeled and explained. Additional links are provided for students seeking tutorial assistance.

<http://www.algebra.com/tutors/students/>

This website is a homework helper for students at the secondary level who are seeking help in algebra. Students can view existing problems to review concepts or they can submit their own to access tutorial assistance.

<http://www.factmonster.com/mathmoney.html>

This website provides math topics ranging from addition of simple numbers to formulas and equations. In each category, math concepts are modeled and explained. Math flash cards are categorized by level of difficulty and operation. This website can be used for elementary and secondary students. Interactive games and quizzes are also linked to this website for additional skill reinforcement.

<http://mathworld.wolfram.com/>

This website is a free and extensive mathematical resource for educators and secondary level students. Mathematical functions are categorized, defined, and demonstrated. Interactive examples are also available for specific math topics.

<http://www.learner.org/interactives/dailymath/>

This student friendly website provides different math categories for students in secondary grades to explore. Each of the interactives includes sessions of different math concepts and an assessment.

Elementary Math Websites

<http://www.brainpopjr.com/math/>

K-3 math skills are presented through fun movies and interactive games. A free trial is available for exploration but subscription is necessary for students to access all the movies and games.

Math Websites for All Ages

<http://www.mff.org>

Mike's Math Club offers a variety of lessons and games focusing on elementary and secondary math topics. Animal characters are used to explain specific math skills and secret codes. Math games reinforce mastery of specific concepts and certain activities are available in Spanish.

<http://www.mathworksheetscenter.com/grades/>

This math website provides articles and worksheets for various math topics for grades K-12. Paid membership allows teachers to access lessons, homework, worksheets, and quizzes.

<http://www.webmath.com/index7.html>

WebMath provides tutorial services for specific K-8 and secondary math concepts. Math problems are modeled and explained. Directions are also provided so that specific problems can be typed in and solved.

<http://www.edhelper.com/math.htm>

This website is a resource for teachers to access math worksheets for elementary and secondary levels. Worksheets are categorized by themes and grade levels. Individual and school subscriptions are available.

<http://www.webmath.com/index.html>

This website provides instant help for students in the elementary and secondary levels. A list of math topics is available to choose from which include explanations and examples. Tips are also provided for typing in specific problems into this site.

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

This math site is currently free and provides students of all ages interactive games and activities focusing on a variety of math topics. Numbers, Shapes, Data, and Algebra are a few of the categories listed. A short description of the math game appears for all topics. Levels of difficulty are available for each game topic and players are provided instant feedback to monitor their progress.

<http://www.321know.com/>

This interactive website provides lessons of math topics for grades K-8. Lessons are categorized by grade level and unlimited practice is available for a variety of math concepts. Explanations and examples are accessible for specific topics and games can be played for reinforcement.

<http://mathforum.org/dr.math/>

This website provides a resource for elementary, secondary, and college level mathematics. Dr. Math is categorized by archives and mathematic concepts within a specific level. Students can view frequently asked questions for assistance or submit their own question to Dr. Math. An additional link is provided for live tutorial services.

Elementary Reading Websites

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

This interactive web site provides resources for students in all subject areas. It is geared more towards elementary levels but can be very beneficial for ELL students. The English category provides information about authors, grammar, study skills, and writing. Free movies and quizzes are available for participants to view in each of the subject areas.

<http://www.readinga-z.com/>

This reading web site is a valuable resource for all teachers. Leveled readers, reading lessons, activity pages and assessments are some of the great components of this web site. An abundance of printable materials are provided to focus on areas such as phonemic awareness, reading fluency and sight vocabulary. License price is listed on web site.

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

This web site is for students in Pre-K -1, focusing on reading instruction. Interactive lessons and games are engaging and free! The different reading levels of the web site can reinforce a variety of skills.

<http://pbskids.org/>

This parent/teacher web site is based on a PBS award-winning television series focusing on enhancing literacy skills. Students in K-3 have a variety of activities to choose from in categories such as, Phonics, Vocabulary, and Text Comprehension.

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

Education Place is a website which provides textbook support resources for grades K-8 in multiple subject areas. In the category of Classroom Resources for Teachers, multiple resources can be viewed and printed for use in the classroom. Graphic organizers and web links are also provided in English and Spanish.

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

Dr. Jean's songs and activities are geared to the primary grades and can enhance listening and speaking skills. Songs and chants can be found for a variety of subject areas and stress content vocabulary. Many of Dr. Jean's songs are performed by children and promote student participation.

Reading Websites for All Ages

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

Many stories and interactive activities can be found on this web site for English language learners. The stories are read aloud and students can find other links to games and songs which will strengthen their speaking, listening, and comprehension skills. Students of all ages will enjoy exploring this web site.

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

The Tumble Book Library provides high interest materials which support literacy skills as well as other curriculum areas. Tumble Books are a great supplement to any reading program and can be used by individual students or an entire class. This web site is well received by ELL and Special Education teachers. Subscription prices vary.

<http://www.enchantedlearning.com>

This web site is a great resource for teachers. A large quantity of topics is provided which focus on reading as well as multiple subject areas. Printable books, worksheets and projects are ready and accessible. Picture dictionaries link students to kid-friendly sites around the world. Refer to web site for subscription prices.

<http://eslbears.com/>

This is a great website for ELL entry level beginners to intermediate level. Participants can listen to pronunciations and reinforce vocabulary. Additional links are provided to extend on interactive activities and explore other ELL resource websites.

<http://www.woodlands-junior.kent.sch.uk>

This is a school developed website which provides interactive games and activities for a variety of subjects. In the Literacy Zone, viewers can participate in interactive games which review skills and provide talking stories. Additional reading sites are linked to further explore literacy topics.

<http://poetry.com/>

This website provides a variety of poetry references which can assist teachers and students. Viewers can read famous quotes, poets' biographies, and receive assistance in writing their own poetry. This site also allows participants to publish their own poetic creations.

<http://a4esl.org/>

This website provides a large quantity of quizzes and activities for ELL students to strengthen their English skills. Students in the upper grades and adults can use this website to study English vocabulary as well as dialog. This website also provides an additional list of bilingual quizzes in forty-one different languages.

<http://www.pppst.com/themes.html>

This website is a great free resource for teachers in all grades. Information is presented in power point format for all subject areas and grade levels in the station entitled "Pete's Presentations". Additional links are provided for interactive games, power point designs, and clip art.

Writing Websites for Teachers and Students of All Ages

<http://www.eduplace.com/graphicorganizer/>

This website provides English and Spanish graphic organizers to support the writing process. Organizers can be printed and copied for classroom use.

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

Writingfix is a free resource based website provided by Northern Nevada Writing Project. It was developed to provide educators as well as students with teaching tools, examples, and prompts to enhance the writing process. Writing prompts, writing traits, and genres are some of the categories listed. Educators from around the world share their knowledge and experiences with other educators by posting lessons and student samples. This is a treasure of writing resources for everyone!

<http://www.readwritethink.org>

This free website provides educators and students with access to Reading and Writing resources. Lessons are categorized by title, grade, and date. Additional links and activities are provided within each lesson and printable student materials are available.

<http://www.teachers.ash.org.au/jeather/writingfun/writingfun.html>

This is a user friendly website for students to interactively explore a variety of writing types for the elementary and up to the secondary level. Examples of students writing are available to view and text organizers can be downloaded to assist in the writing process.

<http://www.shared-visions.com/explore/english/>

This is a good writing resource website geared more towards secondary students and adult learners. Parts of speech, sentence types, and style elements are some of the categories available. Additional resources are also provided.

<http://www.bbc.co.uk/schools/ks2bitesize/english/writing.shtml>

This website provides examples of different types of writing for students in the upper elementary and middle school grades. Writing types are presented through the use of interactive activities, revisions, and quizzes. Additional interactive literacy games with correlating worksheets are also available.

www.ttms.org

This website is a good resource for teachers in all grade levels who are looking for tips on teaching the writing process or writer's workshop in their classroom. Students in the upper grades can also use this website to obtain information regarding specific writing styles and view grade level examples. Downloads are available which focus on other topics such as spelling, reading, and writing assessments.

Elementary Writing Website

<http://www.brainpopjr.com/writing/>

This fun website is geared for the elementary grades and uses short movies to teach students about a variety of writing topics with a subscription, students can explore writing topics such as writing essays, poetry, and types of words.