

ELEMENTARY SCIENCE RESOURCES

The list below contains web resources for additional activities, rubrics, literature books, and magazines to provide rigor for students who have mastered the ALCOSS concepts and skills. For any Internet link, teachers must preview the Web site before allowing students access. Some resources are appropriate for high school students but not for elementary. Some links provide links to other Web sites. Not all links are appropriate for all students. It is strongly recommended for teachers to bookmark the links student may access instead of allowing students to go to Web Sites that may contain content inappropriate for their age and ability levels.

Teacher Blogs:

<http://nstacomunities.org/blog/>
<http://www.stevespangler.com/>

WebQuests:

Real-world applications of content and skills embedded in multidisciplinary, problem-based learning activities.

<http://webquest.org/>
<http://bestwebquests.com/bwq/listcrosstab.asp?wqcatid=8&edid=1>
<http://bestwebquests.com/bwq/listcrosstab.asp?wqcatid=8&edid=3>

Ask An Expert

<http://www.k12science.org/askanexpert.html>
http://www.sciencebuddies.org/science-fair-projects/ask_a_expert_intro.shtml?From=Tab

Citizen Scientists:

Real-world opportunities for students to collect and/or analyze data for scientific organizations.

Bee Scientists- <http://www.greatsunflower.org/>
Butterflies of Alabama- <http://www.thebutterflysite.com/alabama-butterflies.shtml>
Cornell Lab of Ornithology (Nine different projects)-
<http://www.birds.cornell.edu/netcommunity/page.aspx?pid=1664>
FireFly Watch- https://www.mos.org/fireflywatch/about_firefly_watch
FrogWatch USA- <http://www.aza.org/frogwatch/>
Galaxy Zoo- Classifying galaxies for NASA!- http://www.galaxyzoo.org/how_to_take_part
Journey North- <http://www.learner.org/jnorth/>
Life Desk (need permission for organization) - <http://www.lifedesks.org/>
Mars Student Imaging Project- <http://msip.asu.edu/>
Monarch Watch - <http://www.monarchwatch.org/>
Project BudBurst- <http://www.budburst.ucar.edu/index.php>
SETI- <http://setiathome.berkeley.edu/index.php>
Spring Wildlife Watch - <http://www.nwf.org/WildlifeWatch/Home.aspx>
StarChild (star count)- http://www.windows2universe.org/citizen_science/starcount/
Star Dust @Home- <http://stardustathome.ssl.berkeley.edu/classroom.php>

General Science Resources

San Francisco Science Museum Resources
<http://www.exploratorium.edu/>
<http://www.exploratorium.edu/who/geeks/>
<http://www.exploratorium.edu/who/teens/>
Nova-(PBS)- <http://www.pbs.org/wgbh/nova/>
<http://www.kidsites.com/sites-edu/science.htm>
US Government-
http://free.ed.gov/subjects.cfm?subject_id=56&toplvl=41&res_feature_request=0
<http://chem.lapeer.org/>
Videos-<http://www.vega.org.uk/video/>
<http://www.thefutureschannel.com>
AMSTI- <http://www.amsti.org/Science/HandoutsandHelps/tabid/94/Default.aspx>
Smithsonian Education <http://www.smithsonianeducation.org/students/index.html>
IdeaLabs
<http://www.smithsonianeducation.org/students/idealabs/idealabs.html>

Science Magazines, News:

Some content not appropriate for young children
<http://www.sciencedaily.com/>
<http://www.popsci.com/>

<http://www.scientificamerican.com/>
<http://www.sciencenews.org/>
http://www.nsf.gov/news/news_summ.jsp?cntn_id=111303
<http://discovermagazine.com/>
<http://www.world-newspapers.com/children.html>
<http://newyorkscienceteacher.com/sci/pages/astri/index.php>
<http://amasci.com/amasci.html>
<http://www.eskimo.com/~billb/edu.html#scisite>
http://www.nsrconline.org/student_and_parent_resources/student_resources.html
<http://kids.nationalgeographic.com/kids/>

Astronomy

<http://starchild.gsfc.nasa.gov/docs/StarChild/StarChild.html>
http://heasarc.gsfc.nasa.gov/docs/outreach/for_students.html
<http://heasarc.gsfc.nasa.gov/docs/heasarc/resources.html>
Teachers- <http://heasarc.gsfc.nasa.gov/docs/outreach.html>

Cells

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

Environment

Journey North- <http://www.learner.org/jnorth/>
GLOBE- <http://globe.gov/> (AMSTI has this information, too)
EELink- <http://eelink.net/pages/Teachers>
National Parks- <http://www.nps.gov/learn/>
EPA- <http://www.epa.gov/epahome/students.htm>

Microscopic photos and information

<http://www.denniskunkel.com/index.php>

Oceans, weather, climate change, and marine life

<http://www.noaa.gov/>
<http://www.education.noaa.gov/>
<http://www.google.com/sky/>
<http://www.stormpulse.com/>
Images and Animations from NASA <http://visibleearth.nasa.gov/>

Power of 10

<http://micro.magnet.fsu.edu/primer/java/scienceopticsu/powersof10/index.html>

Periodic Table

<http://pubs.acs.org/cen/80th/elements.html>
<http://www.webelements.com/>
<http://www.jason.org/public/whatis/start.aspx>
<http://www.ptable.com/>

Volcanoes

<http://volcano.oregonstate.edu/>
http://www.volcanoes.com/index.php?option=com_content&view=frontpage&Itemid=65
<http://volcanoworld.wordpress.com/>
Teacher lessons & information
<http://volcano.oregonstate.edu/education/index.html>

Videos

Discovery Education Science
http://www.discoveryeducation.com/administrators/curricular-resources/science/index.cfm?campaign=flyout_admin_cr_science
How Stuff Works: Some content may be too advanced
<http://videos.howstuffworks.com/>
SimpleScience.net
TeacherTube: <http://www1.teachertube.com/videoList.php?pg=featuredvideolist>