

Online STEM Activities and Reference Sources

ACTIVITY AND EDUCATIONAL WEBSITES

Public Broadcasting System

<http://www.pbs.org/parents/education>

Science page has activities to do with children, a year-by-year guide to milestones of science understanding.

Math page has similar content for math, including a glossary of math terms and a piece called "Instill a Love of Math."



SciGirls

<http://www.pbs.org/parents/scigirls/activities/>

SciGirls is a PBS show for kids ages 8-12 that showcases bright, curious real tween girls putting science and engineering to work in their everyday lives. Website has an activities page with simple, at-home activities to do with your child. Also see the page "Tips for Encouraging Girls in STEM"

Federal Government

<http://kids.usa.gov/science>

Kids.usa.gov's science section includes sections on Inventors and Scientists, Life Science, Our Planet & Environment, Science Fair Projects, Science Jobs, and Space. Games and videos.

<http://kids.usa.gov/teens-home/math/index.shtml>

Federal government site with sections on math basics, math jobs, math games, and math videos. Aimed toward teens.



NASA (National Aeronautics and Science Administration)

<http://www.nasa.gov/audience/forstudents>

Site for middle & high school students. Includes link to NASA Facebook page, details about current projects, and "Spaceapps Challenge" computer hack-a-thon. Lots of free phone apps. Instructions to apply for NASA student programs. Videos & information

<http://www.nasa.gov/audience/forkids/kidsclub/flash/index.html>

Fun site aimed at younger students. Elmo and Buzz Lightyear educational games.

The Exploratorium

<http://www.exploratorium.edu/explore>

The Exploratorium is a hands-on museum in San Francisco. Its website includes engaging activities, videos, and links to topics such as Astronomy & Space, Culture, Earth, Everyday Science, Human Body, Listening, Living Things, Material World, Mind, and Seeing.

The Khan Academy

<https://www.khanacademy.org/>

Free online video lessons in several academic areas, including many math and science topics, and SAT test preparation.

REFERENCE WEBSITES

CDE: Next Generation Science Standards

<http://www.cde.ca.gov/pd/ca/sc/ngssintrod.asp>

California Department of Education's page on Next Generation Science Standards (NGSS). Includes process of arriving at and adopting the NGSS, rationale for offering middle school science in an integrated sequence, and links to the full standards by grade level.

CDE: Common Core State Standards

<http://www.cde.ca.gov/re/cc/>

California Department of Education's page on the Common Core State Standards. Includes a link to the entire mathematics common core standards.

California State PTA

PTA
everychild.one voice.

www.capta.org

CAPTA STEM Page

Under "Issues" select

"Education" and then "STEM – science, technology, engineering & mathematics"

Audio audio clips of public service announcements and interviews with policy-makers.

CAPTA Common Core Page

Under "Issues" select "Education" and then "common core state standards." Scroll down to the *Parents' Guide to Student Success* for each grade level. The guides summarize the curriculum content of the grade level and give hints to parents on helping their children succeed.