

Resources to Encourage Kids in Science, Technology, and Engineering

Toys and Activities

GoldieBlox makes construction toys for girls designed with storytelling in mind.

www.goldieblox.com

Roominate was designed to get young girls to have fun with STEM, while building hands-on skills and confidence.

www.roominatetoy.com

Snap Circuits provide an exciting, hands-on introduction to electronics. This kit contains real circuit components that snap together to create working electronic circuits.

www.snapcircuits.net

littleBits is a system of electronics that snap together with magnets for prototyping, learning and fun! Each Bit has a simple, unique function, like blinking a light or sensing pressure.

littlebits.cc

Magformers have magnets embedded in each plastic piece allowing your child to create hundreds of three-dimensional designs.

www.magformers.com

K'NEX kits inspire young minds and satisfy kids' curiosity on how to construct simple machines. Each innovative kit keeps young builders busy and intrigued for hours.

www.knex.com

Instructables is a place to “show and tell” at-home science projects. Each project has a description on how to recreate it at home.

www.instructables.com

Design Squad offers science and engineering activities. Design Squad is also a TV program that can be viewed online.

pbskids.org/designsquad

Scratch teaches programming and allows kids to design their own stories, animations, music, and art. Scratch is available online for free.

scratch.mit.edu

Design Challenge Curriculum from The Tech Museum of Innovation offers an assortment of challenges that address real world problems.

www.thetech.org/education/teachers/curriculum.php

Discover Engineering is an interactive website for youth to discover different types of engineering through games, videos, and activities.

www.discoverengineering.org

More Fun Resources

Engineer Your Life is a guide to engineering for high school girls. **Engineer Girl** is a similar resource developed for middle school girls.

www.EngineerYourLife.org
www.engineergirl.org

Gotta have IT, developed by NCWIT, provides resources to encourage kids in computing.

www.ncwit.org/ghit

NASA for Kids provides activities for making pop rockets, pizza box solar oven, and paper comets.

www.nasa.gov/audience/forkids/home/index.html

Geek Dad. Backpack Science is a summer series of easy at-home experiments parents can perform with their kids.

geekdad.com

PBS provides valuable resources for families to explore science.

www.pbs.org/parents/education/science

Science Buddies has a variety of science fair ideas for kids and resources for parents.

www.sciencebuddies.org

Science Matters – National Science Teachers Association provides parents with resources and ideas to help your child learn science.

www.nsta.org/portals/parents

The Women's Adventures in Science introduces inspiring women scientists in a variety of fields including robotics and forensics.

www.nap.edu/catalog.php?record_id=11572

SciGirls is a PBS TV show and a website full of fun activities.

scigirlsconnect.org

Girls Communicating Career Connections features short video segments produced by middle school girls as they investigate what it means to be a scientist or engineer.

gc3.edc.org/themes/world.asp

Sally Ride Science offers books and activities as to help encourage girls interests in science, technology, and math.

www.sallyridescience.com

Bay Area Science Festival celebrates the Bay Area's scientific resources and opportunities by exploring science, engineering, and technology.

www.bayareascience.org

Home Science Tools offers fun science kits for kids of all ages.

www.hometrainingtools.com