

Afterschool Web Resources By Topic

Broad Topic

- <http://www.abcya.com>
 - Free educational computer games and activities for elementary students K-5.
 - Grade level lessons incorporate areas such as math and language arts while introducing basic computer skills.
 - **Discovery Kids:** <http://discoverykids.com/>
 - Games and activities on a broad array of topics
 - **Khan Academy:** www.khanacademy.org
 - Learn for free about math, art, computer programming, economics, physics, chemistry, biology, medicine, finance, history, and more.
 - **Teachers Pay Teachers:** <https://www.teacherspayteachers.com/>
 - First and largest open marketplace where teachers share, sell, and buy original educational resources such as activities, lesson plans, bulletin board ideas, etc.
 - Materials in 100's of subjects for PreK-12, Non-Grade Specific, Adult and Staff
 - **SEDL:** <http://www.sedl.org/afterschool/lessonplans/index.cgi>
 - Various topics
 - Afterschool lesson plan database
 - **Wonderopolis:** <http://wonderopolis.org/>
 - Neat site that may be good for random "I wonder why..." and help you think outside the box
 - Topics broad from science to math to history
 - Inexpensive little activities digging into everyday questions students (and adults!) may wonder
 - Have to dig a little to find resources if you want to expand on something
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Agriculture

- **Missouri Ag in the Classroom:** <https://www.mofb.org/AgintheClassroom.aspx>
 - WebQuests by grade level (K-12)
 - Mini-grants
 - Virtual Agriculture Field Trips
- **St. Louis Dairy Council:** <http://www.stldairyCouncil.org/>
 - Tools and handouts on multiple topics related to dairy, health, and nutrition.
- **My American Farm:** <http://www.myamericanfarm.org/>
 - Lesson Plans and activity sheets by subject area and grade level
 - Games, eComics, virtual field trips
- **National Ag in the Classroom:** <http://www.agclassroom.org/>
 - Curriculum Matrix: The National Agricultural Literacy Curriculum Matrix is an online, searchable, and standards-based curriculum map for K-12 teachers. All curriculum is classroom ready.

Afterschool Web Resources By Topic

Coding/Animation

- **Coding:** www.code.org
 - Learn basic concepts of computer science and coding
 - Learn how to build your own app, game, etc.
 - Full curriculum & professional development for teachers
 - Tutorials for students
- **Girls Develop It:** <http://girldevelopit.com/>
 - Course material and curriculum for coding under Resources tab
- **Go Animate for Schools:** https://goanimate4schools.com/public_index
 - Create videos in a safe online environment
 - Small fee

Google CS First: [https://csfirst.withgoogle.com/c/cs-](https://csfirst.withgoogle.com/c/cs-first/en/curriculum.html?gclid=EA1aIQobChMI_6_U8f6K2gIV2bbACH0h7wfyEAAYASACEgLyWfD_BwE)

[first/en/curriculum.html?gclid=EA1aIQobChMI_6_U8f6K2gIV2bbACH0h7wfyEAAYASACEgLyWfD_BwE](https://csfirst.withgoogle.com/c/cs-first/en/curriculum.html?gclid=EA1aIQobChMI_6_U8f6K2gIV2bbACH0h7wfyEAAYASACEgLyWfD_BwE)

- CS First is a free program that increases student access and exposure to computer science (CS) education through after-school, in-school, and summer programs. All clubs are run by teachers and/or community volunteers.
- Materials are completely free and available online
- Targeted at students in grades 4th-8th (ages 9-14)
- Involve block-based coding using [Scratch](https://scratch.mit.edu/) & are themed to attract students with varied interests
- **Learn to Mod (used with Minecraft):** www.learntomod.com
 - Access to an online modding studio, tons of tutorials, and a private server to test and share your mods.
 - Over 100 lessons from beginner to advanced
- **Scratch:** <http://scratch.mit.edu/>
 - With Scratch, you can program your own interactive stories, games, and animations
 - Scratch is designed especially for ages 8 to 16, but is used by people of all ages.
- **Tynker:** www.tynker.com
 - An end-to-end solution to easily and successfully teach kids how to code, as they create games and animated projects.

College & Career Readiness

- **Missouri Connections:** www.missouriconnections.com
 - Comprehensive, online, career development & planning program

Economics/Personal Finance

- **EconEdLink:** <http://www.econedlink.org/>
 - online economic & personal finance lessons & resources for educators, students and afterschool providers

Engineering

- **Boston Children's Museum: Kids Afterschool:** www.beyondthechalkboard.com

Afterschool Web Resources By Topic

- The activities on this site cover a wide range of subjects including science, literacy, culture, art, health, math, and engineering in ways that support what's learned during the school day.
- **Engineering is Elementary:** <http://www.eie.org/outofschool>
 - Afterschool engineering research-based curriculum for out-of-school time that includes hands-on activities for grades 3-8.
 - Includes educator guide
- **PBS Design Squad Nation:** <http://pbskids.org/designsquad/parentseducators/>
 - The goal of Design Squad is to give kids a stronger understanding of the design process, and the connection between engineering and the things we all use in everyday life.
 - Resources, Lesson Plans & Guides for hands-on engineering.
 - Targeted for kids age 8 and older.
 - Features creative activities, engaging video, interactive games
- **PBS Kids:** <http://pbskids.org/>
 - Parent and Educator online workshop to build your own confidence pertaining to teaching and working with students with engineering concepts.
 - Engineering resources from NASA and the Design Squad
 - Educational games, videos
- **Through My Window** (funded through National Science Foundation): <http://throughmywindow.org/>
 - Engineering curriculum for grades 4-8.
 - Online interactive learning adventures.
 - Offline enrichment activities.

Geography

- **National Geographic:** <http://www.nationalgeographic.com/xpeditions/lessons/matrix.html>
 - Tied to national geography standards

Gardening

- **Captain Planet Foundation:** www.captainplanetfoundation.org
 - The learning center page shares the most effective curricula, techniques, approaches and strategies for empowering the next generation of Earth's caretakers.
 - Provide small and large grants
- **The Edible Schoolyard Project:** www.edibleschoolyard.org
 - Database of K-12 edible education curriculum
- **Growing Minds Farms to School:** http://growing-minds.org/school-gardens/?gclid=EAlaIQobChMI57Hntf-K2gIVR7nACh2e8QRoEAAYASAAEgLkuPD_BwE
 - Lesson Plans
 - Weekly Activities
 - Tips for gardening with students
- **KidsGardening.org:** www.kidsgardening.org
 - Resources on how to start a garden program, lesson and activity ideas and classroom projects
- **Life Lab:** www.lifelab.org

Afterschool Web Resources By Topic

- Gardening curricula and activity guides
- Every lesson in [The Growing Classroom](#) has been cross-mapped with the new [Common Core](#) Math and Language Arts standards and [Next Generation Science Standards](#) (NGSS).
- **MU Extension-Eating from the Garden:** <http://missourifamilies.org/eatfromgarden/>
 - Nutrition and gardening curriculum for fourth- and fifth-grade students.
 - Lessons have been cross-referenced with the [Missouri Grade Level Expectations](#).
- **National Farm to School Network:** www.farmtoschool.org
 - Large database of resources

- **USDA Food and Nutrition Service Farm to School:** <http://www.fns.usda.gov/farmtoschool/farm-school>
 - Farm to School Planning Toolkit
 - Many other resources

Health/Wellness

- **Alliance for a Healthier Generation:** www.healthiergeneration.org
 - Free staff training resources on wellness in out of school time programs.
- **BMX Stem Afterschool Program:** <https://www.usabmx.com/site/sections/167>
 - The program is built around a Science Technology Engineering and Math (STEM) curriculum model for ages 7-14.
 - The program is equal part education, equal part athletics and exercise.
 - Costs associated with this program
- **CATCH (Coordinated Approach to Child Health):** <http://catchinfo.org/programs/after-school/>
 - Physical activity and nutrition education program designed for elementary and middle school aged children (grades K – 8) in an after-school or summer setting.
 - CKC is composed of nutrition education (including snack activities) and physical activity.
 - Easy-to-use format that both children and staff enjoy and is easy to implement.
- **Girls on the Run:** <http://www.girlsontherun.org/>
 - Programs available for girls in grades 3-5 and 6-8
 - 12 week program
- **Healthy Out-of-School Time Coalition (HOST):** <http://www.niost.org/HOST-Site>
 - Offers numerous web resources on healthy eating, physical activity and health.
- **Media-Smart Youth: Eat, Think, and Be Active!** <https://www.nichd.nih.gov/msy/Pages/index.aspx>
 - Free program that helps young people ages 11 to 13 better understand the complex media world and how it can influence their health.
 - Curriculum includes 10 lessons that encourage kids to eat healthy, be active, and think critically about marketing messages.
 - [Free program materials](#) and an [on-demand webinar training](#) to help facilitators successfully carry out the program, independently or in partnership with schools, after-school programs, or other local youth-serving organizations.
- **Missouri Department of Health:** <http://health.mo.gov/living/families/oralhealth/oralhealtheducation.php>
 - K-12 Oral Health Education
- **St. Louis Dairy Council:** <http://www.stldairyCouncil.org/>
 - Tools and handouts on multiple topics related to dairy, health, and nutrition.

Afterschool Web Resources By Topic

History/Arts/Literature/Culture

- **Arts Edge (The Kennedy Center):** <http://artsedge.kennedy-center.org/educators.aspx>
 - Lessons, activities & projects for teaching in, through the arts.
 - How-to's and guide's
- **Boston Children's Museum: Kids Afterschool:** www.beyondthechalkboard.com
 - The activities on this site cover a wide range of subjects including science, literacy, culture, art, health, math, and engineering in ways that support what's learned during the school day.
- **EDSitement!:** <http://edsitement.neh.gov/lesson-plans>
 - Helpful for humanities lesson plans – history, literature, culture, arts, etc.
 - Free lesson plans – engaging and fun.
 - Specific “after school” project link also: <http://edsitement.neh.gov/after-school>.
- **Smithsonian's History Explorer:** <http://historyexplorer.si.edu/home/>
 - Hundreds of free, innovative online resources for teaching and learning American history.
 - Designed for use by K-12 teachers and students, afterschool program providers, families, and individuals interested in lifelong learning.

Outdoor Education

- **Audubon Adventures:** <http://www.audubonadventures.org/>
 - Conservation curriculum created by the National Audubon Society for grades 3 - 8.
 - Standards-based science content about birds, wildlife, and their habitats.
 - Teacher resources, interactive games, puzzles, quizzes, etc.
- **Bird Sleuth K-12:** <http://birdsleuth.org/>
 - Free Afterschool Investigators: Nature Detectives Kit – provides resources & guides for leaders
 - Free downloadable student publication
- **Geocaching:** <https://www.geocaching.com/play>
 - GPS-enabled treasure hunting
- **Kids' Planet:** www.kidsplanet.org
 - Teacher curriculum and resources
 - Fact sheets on over 50 species of animals from around the world
 - Kids games
- **Kids Recycle!:** www.kidsrecycle.org
 - Provides tools for kids and teachers to help create zero-waste K-12 schools
 - Web resources and downloadable guides & manuals
- **Missouri Department of Conservation:** <http://mdc.mo.gov/>
 - Discover Nature School: 5 instructional units from PreK to 12
 - Field Guide: Packed with biological details, images, videos, audio clips, and fun facts, our online field guide helps you identify many of Missouri's plants, animals, and mushrooms.
 - Falcon Camera Education Material: Use the falcon web cam and related education materials to open Missouri students' eyes to the lives of peregrine falcons, the fastest animals on earth.

Afterschool Web Resources By Topic

- **MoNASP (MO National Archery in the Schools Program):** <https://nature.mdc.mo.gov/discover-nature/teacher-portal/monasp>
 - Start an archery program in your school
 - Equipment rebates available by meeting certain criteria
- **Nature Rocks:** www.naturerocks.org
 - Provides hundreds of ideas for outdoor activities in all kinds of settings.
- **National Park Service:** <http://www.nps.gov/learn/>
 - Curriculum, fun and games, a guide to park Junior Ranger programs and a host of other fun and educational media created.
 - Nature, Science, History & Culture
- **National Wildlife Federation:** <https://www.nwf.org/Educational-Resources/Educator-Tools>
 - 100's of resources, curriculum, tip sheets, downloadables, step-by-step guides
- **Rainforest Alliance:** www.rainforest-alliance.org
 - Kids' Corner includes online games, activities, virtual rain forests visits, forest facts, virtual storybooks, species profiles.
 - Curriculum section contains PreK-12 standard-based lesson plans and activities
- **Tree People:** <https://www.treepeople.org/action/for-schools/teachers>
 - Project toolkits available for planting trees, caring for trees, rain barrels, native plant gardens, and rain gardens.

Professional Development (Afterschool)

- **Afterschool Training Plan (Y4Y website):** <http://www.y4y.ed.gov/tools/content-after-school-training-plan/>
 - Afterschool training plan for staff
- **Click2Science:** <http://www.click2sciencepd.org/>
 - Free online STEM professional development for out-of-school providers.
 - Coaching, training, and meeting guides.
 - Self-directed online learning modules.
 - On-demand webinars.
- **SEDL Afterschool Training Toolkit (Y4Y website):** <http://www.y4y.ed.gov/toolkits/afterschool/>
- **Thinkfinity:** <http://thinkfinity.org/afterschool>
 - Online professional learning community
 - Online tools/resources for educators
- **You for Youth (Y4Y):** <http://y4y.ed.gov>
 - Customized for 21st CCLC Afterschool Programs
 - Online professional development & staff trainings, customizable tools, webinars
 - Focus on STEM, Aligning with the School Day, Family Involvement, Strengthening Partnerships, Project-Based Learning and Civic Engagement

Reading/Writing

- **ReadWriteThink (NCTE):** <http://www.readwritethink.org/parent-afterschool-resources/>
 - Good reading and writing activities & lesson plans

Afterschool Web Resources By Topic

- Will provide additional lessons and resources to help build off of an activity if you find one particularly helpful or your students really get interested! Great resource!

Service-Learning

- **Habitat for Humanity:** <http://www.habitat.org/youthprograms/resources>
 - Lesson plans, programs and activity guides
- **Heifer International:** www.heifer.org/schools
 - Service-learning guides and curriculum for grades K – 8
- **H2O for Life:** <http://www.h2oforliveschools.org/>
 - Nonprofit organization to help students understand the need around the world for clean water.
 - Resources, lesson plans & kits
- **Jane Goodall's Roots & Shoots:** <https://www.rootsandshoots.org/>
 - Tools for Educators including curriculum-based service-learning program, mini-grants, free online professional development
- **Youth Service America:** <http://www.ysa.org/>
 - Service-learning grants, resources and project ideas
 - Great step-by-step toolkits under the resources tab

Social Emotional Learning AS Resources

- **Edutopia:** <http://www.edutopia.org/stw-social-emotional-learning-after-school-resources-downloads>
 - Social Emotional tips, tricks, and some small activities
- Every Monday Matter's You Matter: www.everymondaymatters.org/educators

Space & Earth Science

- **Imagine the Universe!:** <http://imagine.gsfc.nasa.gov/>
 - *Ages 14 - adult, with a special area for educators*
 - Our Universe... what we know about it, how it is evolving, and the kinds of objects and phenomena it contains. Also, how scientists know what we know, what mysteries remain, and how we might one day find the answers to these questions.
- **NASA Goddard Space Flight Center:** <https://heasarc.gsfc.nasa.gov/docs/outreach.html>
 - Education materials for teachers include activities and lesson plans which use concepts and data from high energy astrophysics in interdisciplinary lessons appropriate for math and science classes.
 - References many other related web resources on topics such as astronomy.
 - Borrow telescopes (they will mail them to you free of charge).
- **NASA Space Place:** www.spaceplace.nasa.gov
 - Learn space and earth science through interactive games, hands-on activities, fun articles, and short videos. Material in both English and Spanish and numerous resources for parents and teachers
 - Upper-elementary-aged children
- **SciJinks:** www.scijinks.gov
 - SciJinks is all about weather! Short for Science Hijinks. A joint NOAA and NASA educational website that puts fun and adventure into learning about weather, satellite meteorology, and Earth science.
 - Geared toward middle- and high-school aged kids and their educators.
- **StarChild:** <http://starchild.gsfc.nasa.gov/docs/StarChild/StarChild.html>

Afterschool Web Resources By Topic

- Level 1: Ages 6-10, Level 2: Ages 10-14.
- Information and activities about The Solar System, The Universe, Space Stuff, and a Glossary.

STEM (math, science, broad topic)

- **AAAS ScienceNetLinks:** <http://sciencenetlinks.com/>
 - K-12 science education resources including teaching tools, interactives, podcasts, and hands-on activities
 - Afterschool resources offer informal, often hands-on, science activities. Each one includes a facilitator page, as well as online and printable pages for kids.
- **BMX Stem Afterschool Program:** <https://www.usabmx.com/site/sections/167>
 - The program is built around a Science Technology Engineering and Math (STEM) curriculum model for ages 7-14.
 - The program is equal part education, equal part athletics and exercise.
- **Boston Children's Museum: Kids Afterschool:** www.beyondthechalkboard.com
 - The activities on this site cover a wide range of subjects including science, literacy, culture, art, health, math, and engineering in ways that support what's learned during the school day.
- **Bugscope:** <http://bugscope.beckman.uiuc.edu/>
 - Provides free interactive access to a scanning electron microscope (SEM) so that students anywhere in the world can explore the microscopic world of insects.
- **Hooked on Science:** www.hookedonscience.org
 - Experiment guides and videos for STEM activities
 - eScience Newsletter
- **HowtoSMILE.org:** All the Best Science & Math Activities: <http://howtosmile.org/>
 - Online database of interactive STEM lessons & activities for informal learning settings.
 - Website gathers the best materials from the web and creating learning activities, tools, and services – all designed especially for those who teach school-aged kids in non-classroom settings.
- **Mixing in Math:** <https://mixinginmath.terc.edu/>
 - Offers over 200 English and Spanish resources that blend math with fitness, nature, cooking, and daily routines like cleaning up. MiM resources include games, projects, movement activities, and museum-type displays.
- **NCTM Illuminations: Resources for Teaching Math:** <http://illuminations.nctm.org/>
 - Library of math activities & lessons
 - Learn math standards
 - Links to additional resources
- **PBS Kids Wild Kratts:** <http://pbskids.org/wildkratts/>
 - Kid friendly site to learn about habitats & animals. Play games, explore the ocean, search and learn about animals by group, habitat or region with the interactive creaturepedia.
- **Practical Uses for Math and Science (PUMAS):** <https://pumas.gsfc.nasa.gov/>
 - This is a collection of examples ("lessons" or ""activities") showing how math and science topics taught in K-12 classes can be used in interesting settings, including everyday life.
- **Science After School (SAS)-Consumers Guide:** <http://www.sedl.org/afterschool/guide/science/>
 - K-12 materials include semester and year-long curricula, activity kits, instructor guides consisting of many related activities, and websites that offer content appropriate for afterschool programs.

Afterschool Web Resources By Topic

- Users of this guide are able to search and sort entries by title, subject, grade level, target audience, and cost, if any.
- **STEM Training Plan (Y4Y website):** <http://www.y4y.ed.gov/tools/create-a-training-plan-for-staff/>
 - STEM training plan for staff
- **STEMfinity:** www.stemfinity.com
 - 100+ Free Online STEM Resources
 - One-stop shop for STEM hands-on educational toolkits from multiple companies (For purchase)
 - 1,000+ STEM Grant Opportunities
- **Steve Spangler Science:** <http://www.stevespanglerscience.com/>
 - Free science experiments instructions on multiple STEM topics
 - Store to purchase material for experiments