

Resources

for the Busy Instructor
Websites, Apps, and More

***Apps, Internet Sites,
and other Resources
for Education, Training,
and Professional
Development***

The Resource Center
for CareerTech Advancement

resourcecenter@careertech.ok.gov

TA9214

What is the Resource Center?

The Resource Center for CareerTech Advancement is a division of the Oklahoma Department of Career and Technology Education, located in Stillwater, Oklahoma. The staff of the Center research educational materials and best practices to disseminate throughout the state CareerTech system. The Resource Center also provides support in identifying curriculum, assessments, professional development and other instructional delivery resources on request.

Who Can Use the Resource Center?

Instructors and educators across Oklahoma and the United States in middle and high schools, technology centers, junior and community colleges can use the items we create to strengthen and enhance the learning experience.

How Do You Contact Us?

You can reach us by email, phone, or fax:

- resourcecenter@careertech.ok.gov
- 800.654.4502
- 405.743.5154 (fax)



Did you know that you can download a copy of this publication from our website? We provide a free PDF version of Resources for the Busy Instructor that has hotlinks to the websites available. Just go to <https://www.okcareertech.org/educators/cimc/resources> and select the "Downloads" navigation link. Then, select the Resources for the Busy Instructor option from the list of downloads.

Resources *for the Busy Instructor*

Apps, Internet Sites, and other
Resources for Education, Training, and
Professional Development



Compiled by:

The staff of The Resource Center for CareerTech Advancement, a
division of the Oklahoma Department of Career and Technology
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The Resource Center

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Website addresses were accurate and all content on referenced
websites was appropriate during the development and
production of this product. However, websites often change;
The Resource Center for CareerTech Advancement takes no
responsibility for a site's content. The inclusion of a website
does not constitute an endorsement of that site's other pages,
products, or owners. You are encouraged to verify all websites
prior to use.

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Edited by Craig Maile and Tracy Boyington

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CareerTech Student Organizations (CTSOs)

HOSA — National

www.hosa.org

Website of the international student organization recognized by the U.S. Department of Education and the Health Science Education (HSE) Division of ACTE.



FCCLA

<http://fcclainc.org/>

Website of the national CTSO (Career and Technical Student Organization) that provides personal growth, leadership development, and career preparation opportunities for students in Family and Consumer Sciences education.



DECA

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

DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe.



BPA

<http://bpa.org/>

Website of the leading CTSO (Career and Technical Student Organization) for students pursuing careers in business management, office administration, information technology and other related career fields.



FFA

<https://www.ffa.org/home>

FFA is an intercurricular student organization for those interested in agriculture and leadership.



SkillsUSA

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

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce.



TSA

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

The mission of TSA is leadership and opportunities in technology, innovation, design and engineering. Members apply STEM (science, technology, engineering and mathematics) concepts through co-curricular programs.



Teaching, Advising, & Career Information

Career Pathways Catalog of Toolkits

<https://cptoolkitcatalog.peerta.acf.hhs.gov/>

An online directory of free resources for planning a career pathways initiative; allows filtering of toolkits by publisher, target population, intended audience, primary career pathway element addressed, and industry.

Tidbits for Teachers

<http://www.okcareertech.org/educators/cimc/resources/downloads-1>

A free booklet to download offering facts and features to enhance instruction, add interest to presentations, create educational quizzes, and more.

Brainy Quote

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

Quotes for all occasions by topics and by authors.

Alberta Learning Information Services (ALIS)

<http://alis.alberta.ca/index.html>

Career planning and education resources from the government of Alberta, Canada; publications, many of which include free PDF editions, include:

- Easy Reading: Keep Your Job
- Advanced Techniques for Work Search
- Assessing You: The First Step in Career Planning
- A Guide for Midlife Career Moves
- Change and Transitions—The Path from A to B
- Creating a New Future: The Job-Loss Workbook
- Job Smart: Tips for Staying Employed
- Let's Talk: A Guide to Resolving Workplace Conflicts
- My Choices, My Work, My Life
- Positive Works II
- Work Search Basics
- Workability: What You Need to Get & Keep a Job

Mozilla Open Badges

<http://openbadges.org/>

Free software and an open technical standard any organization can use to create, issue, and verify digital badges.

Career Tools

<https://thiswaytocpa.com/career-tools/articles/>

Career tools, including articles and videos, from the American Institute of CPAs.

Mindset Kit

<https://www.mindsetkit.org/about>

The Mindset Kit was created by The Project for Education Research that Scales (PERTS), a research center in the psychology department at Stanford University.

The Portfolio Handbook

http://portfoliohandbook.com/PortfolioHandbook_UCID12.pdf

A guide to portfolio development for graphic designers.

Pennsylvania Career and Technical Education—Surviving & Thriving in a Nontraditional Skilled Trade

<http://www.careertechpa.org/Portals/0/docs/StateResources/Surviving%20and%20Thriving.pdf>

A free guide that discusses what to expect, support, starting off on the right foot, health and safety tips, and more.

Career Focus: After Military Service

<http://www.okcareertech.org/educators/cimc/resources/downloads-1>

This free guide walks veterans through five steps in making the transition from military service to a civilian career: self-assessment, exploring career interests and options, filling a skills gap, finding and applying for a job, and managing the career transition.

Keys to Employability Posters

<http://www.okcareertech.org/educators/cimc/resources/downloads-1>

Free posters to download.

Comparative Analysis of National Apprenticeship Systems

http://www.ilo.org/newdelhi/whatwedo/publications/WCMS_234728/lang--en/index.htm

A World Bank report (2013) that compares approaches to apprenticeship programs in 11 countries, including the United States.

CTE Online

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

CTE Online provides professional development tools and information for CTE teachers.

Career Planning How-To Guides

<http://www.mcgill.ca/caps/publications/guides/>

These guides from McGill University can help you with the job search process, with guides on how to find jobs, how to contact employers, and how to interview.

Teaching Channel

<https://www.teachingchannel.org/teaching-channels-mission>

Teaching Channel is “a thriving online community where teachers can watch, share, and learn diverse techniques to help every student grow.” This non-profit organization’s website has hundreds of videos to browse by subject, grade and topic.

Edutopia

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

“What works in education,” from the George Lucas Educational Foundation; includes, discussions, videos, blogs and other types of resource on a wide range of topics.

Free Graphing Calculator (iOS) by William Jockusch

<https://itunes.apple.com/us/app/free-graphing-calculator/id378009553>

The app includes many features and does things many paid versions will do; includes a reference directory and categories for trigonometry, calculus, and many more features.

Larry Ferlazzo’s Websites of the Day

<http://larryferlazzo.edublogs.org/>

As the name implies, daily lists of websites with useful content for educators.

How to Be (or Find) a Mentor

[http://www.weareteachers.com/blogs/post/2015/04/03/how-to-be-\(or-find\)-a-trulygreat-teaching-mentor](http://www.weareteachers.com/blogs/post/2015/04/03/how-to-be-(or-find)-a-trulygreat-teaching-mentor)

Tips and stories for mentors and new teachers.

Learn How to Become

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

Find your career, Find your future.

Online Learning Consortium

<http://onlinelearningconsortium.org/>

OLC is a non-profit organization that provides professional development, best practices, and information to educators.

SmartBuilder

<http://www.smartbuilder.com>

SmartBuilder is an authoring tool that offers a way to create interactivity templates, object libraries and more for no cost with their community edition.

Edudemic

<http://edudemic.com/>

Edudemic is an educational technology website that has a goal to connect educators, students, administrators, almost everyone with great technology.

Essay Mama

<http://www.essaymama.com/write-my-essay/>

While this site is often used by students who would rather not write their own essays and papers, there are some good applications for teachers — such as if you aren't a great writer and need content for your eLearning lessons or if you want an expert to edit your content. There is also a free essay writing guide and a glossary of terms for students.

Education Dive

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

Education Dive provides information tailored to education professionals in small summaries that can be read in 60 seconds or less.

Classroom 2.0

<http://www.classroom20.com/>

According to the website, they are "the social network for those interested in Web 2.0, Social Media, and Participative Technologies in the classroom." You can sign up for discussions and events in this community-supported network of educators.

We Are Teachers

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

This site includes resource directories, information on grants and contests, an ideas section, lesson plans, app reviews, and more.

CNN's Schools of Thought Blog

<http://schoolsofthought.blogs.cnn.com/>

According to the website, "CNN's Schools of Thought blog is a place for parents, educators and students to learn about and discuss what's happening in education."

Common Sense Media’s Professional Development Resources

<https://www.commonsense.org/education/digital-citizenship>

This site provides information and training on teaching students about digital citizenship, cyberbullying, online safety, and more.

Digital Media Literacy

<http://mediasmarts.ca/digital-media-literacy>

This website has lots of information on youth and the Internet and it even has educational games that help youth with digital literacy.

TimeToast

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

Do you have your students create timelines for class? Did you know there is a website available for students to create and share them online? Timetoast can be used for classwork or for fun!

Resources for Educational Excellence

<https://www2.ed.gov/free/index.html>

Free teaching and learning resources are found on this site.

TED

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

TED began as a conference in 1984 and has become much more. It includes TED Talks – there are more than 1400 of them online now, along with information on their conferences, live online conversations, and much more.

Youth in Transition — Soft Skills to Pay the Bills

<http://www.dol.gov/odep/topics/youth/softskills/>

This Department of Labor site provides curriculum for teaching soft or workplace readiness skills.

Workplace Literacy

<http://www.intercultures.ca/cil-cai/countryinsights-apercuspays-eng.asp>

On this website, you can learn about workplace culture in various countries around the world.

BYU Diversity Activities

<http://education.byu.edu/diversity/activities.html>

This site provides links and activities for diversity awareness.

Leading a Multigenerational Workforce

https://assets.aarp.org/www.aarp.org_/articles/money/employers/leading_multigenerational_workforce.pdf

This is a free guide from AARP that includes an overview of the generational differences and management challenges.

The Forum Guide to Data Ethics

<http://nces.ed.gov/pubs2010/2010801.pdf>

The National Forum on Education Statistics produced this free guide; it includes information on how data ethics can impact education.

iPad apps for students with Special Needs

<http://elearningindustry.com/free-special-needs-ipad-apps-part-1>

This site provides a list of iPad apps for students with Special Needs; you will need to scroll down the page to see the list then click on the link of the app in which you are interested.

Digital Skills Teachers Need

<https://www.educatorstechnology.com/>

This site is a resource for educational web tools and apps for educators.

Six-Word Memoirs

<http://www.smithmag.net/sixwords/>

A life story in six words.

Ampergram

<http://ampergram.com/>

Typographic compositions from Instagram photos can be created here.

Google Arts and Culture

<https://www.google.com/culturalinstitute/beta/>

Explore by selecting an art collection, an artist or an artwork.

Ribbett

<http://www.ribbonet.com/?d=ribbett.com>

Online photo editing made fun and easy on this site.

Screenomatic

<http://screencast-o-matic.com/>

This site provides one-click screen capture.

Career One-Stop

www.careeronestop.org

Career information for specific industries, in-demand occupations, profiles the tools and technologies that workers use, and online career video segments.

Bureau of Labor Statistics

<http://stats.bls.gov>

At-a-glance tables, research, demographics, industry and occupation information, career information for kids, and more.

O-Net OnLine

www.onetonline.org/

A database that allows students and educators to read about hundreds of careers.

OKJobMatch.com

<https://okjobmatch.com/>

According to the site, they are “a revolution in Oklahoma’s job matching technology;” they match the right people with the right jobs, serving both job seekers and employers.

Career Counselors’ Guide to Social Media

<http://www.naceweb.org/career-development/best-practices/the-career-counselors-guide-to-social-media/>

From the National Association of Colleges and Employers.



Creativity

Denver Art Museum

<http://creativity.denverartmuseum.org/for-teachers/resources/creativity/>

Creativity resource for teachers. Includes lesson plans, images, workshops, and field trip information

The DaVinci Institute

<http://davinciok.org/>

Oklahoma's Creativity Think Tank—promoting a statewide creative renaissance through lectures, professional development, research and advocacy.

Creative Oklahoma

<http://stateofcreativity.com/>

Initiatives divided into categories Awards, Education, Events, Network.

Torrance Center for Creativity and Talent Development

<https://coe.uga.edu/directory/units/torrance-center>

The Torrance Center for Creativity and Talent Development is a service, research, and instructional center concerned with the identification and development of creative potential and with gifted and future studies.

Creativity at Work

<http://www.creativityatwork.com/featured-creativity-innovation-articles/>

Creativity at Work helps organizations develop creativity, innovation and collaborative leadership skills. Services include consulting, training, and coaching with an emphasis on arts-based learning and design thinking for innovation.

The Creativity Post

<http://www.creativitypost.com/about-us>

The Creativity Post is a non-profit web platform committed to sharing the very best content on creativity, in all of its forms.

Digital Tools/E-Learning

Tremendous Technology Tools for Teaching

<http://simplycurious.wikispaces.com/techtools>
Collaboration, Instructional, Multimedia production, Presentation, Productivity, Publishing, and Social Networking Tools.

Piktochart

<http://piktochart.com/>

Create easy infographics, reports, and presentations.

VoiceThread

<https://voicethread.com/>

An interactive collaboration and sharing tool that enables users to add images, documents, and videos, and to which other users can add voice, text, audio file, or video comments.

Glogster

<https://www.glogster.com>

Create online multimedia posters. Combine all kinds of media on one page and create fantastic posters that really tell the story.

Thinglink

<https://www.thinglink.com/>

An interactive media platform that empowers students and educators to create more engaging content by adding rich media links to photos and videos.

Fundamentals of Blended Learning

http://www.uws.edu.au/__data/assets/pdf_file/0004/467095/Fundamentals_of_Blended_Learning.pdf

A module from the University of Western Sydney (Australia).

MindMup 2

<https://www.mindmup.com/>

Free online mind map generator.

Wordle

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

Generates "word clouds" from text that you provide.

53 Tips on Using the Cloud for eLearning

<http://www.elearningguild.com/surveys/?sid=198>

The cloud has tremendous potential in the eLearning world, but there are so many choices. This complimentary eBook features 11 top eLearning professionals offering tips on areas including planning, cost, content, the user experience, support and security.

834 Tips for Successful Online Instruction

<http://www.elearningguild.com/content.cfm?selection=doc.541>

This free digital book is a collection of tips from 336 professionals. Nowhere will you find a more comprehensive set of tips to improve your knowledge and skills in online instruction. This eBook is sponsored by WebEx Communications, Inc.

e-Learning Survival Guide

<http://zenzebra.net/elearner-survival-guide.pdf>

Everything you need to succeed in the world of mobile learning, e-learning, hybrid college, K-12, and career courses.

Social Media Guide and Workbook

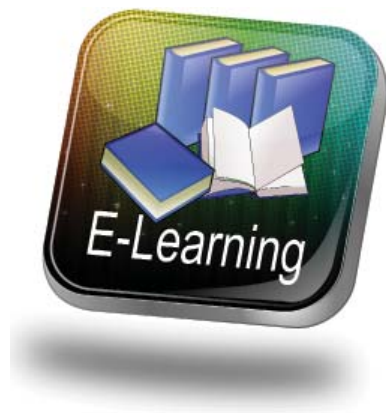
<http://www.msctc.org/Knowledge-Translation/Social-Media-Guide>

From the Model Systems Knowledge Translation Center.

TED Talks for eLearning

<https://elearningindustry.com/top-10-ted-talks-for-elearning-professionals>

10 Ted Talks for the eLearning professional.



eLearning Industry

<http://elearningindustry.com>

Search for the following:

- eLearning Content copyright
- Accessible Online Courses
- 55 Free Adobe Captivate 6 Video Tutorials
- 34 Free Flash CS6 Video Tutorials
- 105 Free Moodle Video Tutorials
- 21 Free iSpring Presenter Video Tutorials
- 31 Free eFront Video Tutorials
- 35 Free Articulate Storyline Video Tutorials
- 18 Videos on implementing Twitter in your classroom
- Free Microsoft Teaching Tools
- 12 YouTube Videos Every Online Educator Should View
- 32 Free Photo and Image Editing Tools
- Social Learning Tools Every Online Educator Should Know
- 34 Websites to Download Royalty Free and Creative Commons Music for Free
- 15 Free Podcast Tools
- 14 Best Online Bibliography and Citation Tools
- 21 Free Digital Storytelling Tools For Teachers and Students
- List of 13 Free Sticky Notes Tools for Teachers and Students
- 28 Free Social Bookmarking Tools for educators
- 15 Free Web Conferencing Tools
- List of 15 Free Google Tools for eLearning Professionals
- List of 17 Free Screen Capturing Tools
- 19 Free Text To Speech tools for Educators
- 15 Free Testing and Quizzing Tools for Online Education



Agriculture, Food, & Natural Resources

Adventures in Renewable Energy Technology

www.re-energy.ca

Renewable energy project plans to build working models, free to download, on topics including solar electricity, solar heat, wind energy, water power, biomass energy, and other clean energy technologies.

Agriculture in the Classroom

www.agclassroom.org

Classroom resources, lesson plans, state agriculture profiles, and more from the USDA.

The Livestock Conservancy

<http://livestockconservancy.org/>

An organization dedicated to preserving endangered breeds of livestock and poultry.

AVMA

www.avma.org

Journal articles and news from the American Veterinary Medical Association.

Breeds of Livestock

www.ansi.okstate.edu/breeds/

Descriptions and color photos of breeds of cattle, horses, goats, sheep, swine, poultry, and other species.

Dairy Max

www.dairymax.org

Promotes the lifelong health benefits of dairy products, with information for health professionals, educators, and consumers.

Detecting Plant Diseases in the Lab

<https://catalog.extension.oregonstate.edu/em9120>

A free 3-minute video from Oregon State University Extension; describes how the Hermiston Agricultural Research and Extension Center examines plant disease samples to determine pathogens and plant diseases.

DietaryGuidelines.gov

www.cnpp.usda.gov/dietaryguidelines.htm

Resources related to the USDA's Dietary Guidelines for Americans, including current and previous guidelines.

Dig It! The Secrets of Soil

<http://forces.si.edu/soils/>

Interactives, videos, and educational materials from the National Museum of Natural History.

Eat Smart. Play Hard

<https://www.ag.ndsu.edu/food/health-and-nutrition/eatsmart>

A free, full-color magazine from North Dakota State University Extension Service; other excellent, full-color publications are available from NDSU Extension.

Swine: From the Animal's Point of View

<http://anrcatalog.ucanr.edu/pdf/8506.pdf>

History, facts, activities and more from the University of California.

Sheep: From the Animal's Point of View

<http://anrcatalog.ucanr.edu/pdf/8507.pdf>

History, facts, activities and more from the University of California.

Energy Statistics and Analysis

www.eia.doe.gov

Energy statistics from the Energy Information Administration.

EarthEasy

<http://eartheasy.com>

Articles, blogs, resources, and products for living a sustainable lifestyle.

Energy Kids

www.eia.doe.gov/kids/

An engaging, kid-friendly site that describes almost every aspect of energy and energy sources, gives a history of energy, and offers challenging puzzles and quizzes.

Progressive Agriculture Safety Day

<https://www.progressiveag.org/Learn.cgi>

A variety of resources and programs to help teach farm safety.

Farm Tech Trek—GPS

www.campsilos.org/mod4/students/farmtrek.shtml

Information for students about GPS for farmers and other farming-related activities.

FightBAC.org

www.fightbac.org

Website of the Partnership for Food Safety Education, featuring information about food safety and safe food handling.

Investigating Your Environment

<https://www.fs.usda.gov/detailfull/conservationeducation/materials/national-curriculums/?cid=STELPRDB5107459&width=full>

A complete interdisciplinary curriculum for grades 6-12 from the USDA Forest Service.

FoodSafety.gov

www.foodsafety.gov

Gateway to government food safety information, including safety alerts, consumer advice, national food safety programs, and more.

Food and Drug Administration—Food Information

www.fda.gov/Food/

Recent news, national food safety programs, special interest areas, and other information from the U.S. Food and Drug Administration.

Forestry Images

www.forestryimages.org

More than 137,000 images relating to forest health, natural resources, and silviculture.

Green Living Tips

www.greenlivingtips.com

Hundreds of articles and tips on ways to help reduce your environmental impact.

Growing A Nation: The Story of American Agriculture

www.agclassroom.org/gan/

A history of American agriculture by decade or by topic category.

Growing the Next Generation

www.growingthenextgeneration.com

Soil and plant nutrient teacher materials, student activities, games, videos, and career information.

Idaho National Laboratory's Energy for Educators

www.energyforeducators.org

Free renewable energy curriculum resources.

International Food Information Council

www.foodinsight.org

Includes educational booklets and brochures for educators, students, and consumers.

Invasive Species: Outreach and Education K-12

<http://www.weedcenter.org/education/k-12.html>

Activities and lessons at the website of the Center for Invasive Species Management.

Key Ingredients: America By Food

www.keyingredients.org

The online educational companion to the Smithsonian Institution's traveling exhibition, featuring "500 years of American food," "the American cookbook project," and "eating across America."

KidWind Project

www.kidwind.org

Teachers, engineers, and scientists "committed to innovative energy education," featuring free lessons and resources to download on a variety of wind energy topics.

Lincoln Electric

<http://www.lincolnelectric.com/en-us/education-center/welding-safety/Pages/welding-safety.aspx>

Welding safety information.

Made in Oklahoma

www.madeinoklahoma.net

A great way to locate products made in the State of Oklahoma.

Miller Welds

<https://www.millerwelds.com/resources>

Includes educational materials such as a video library and project gallery for the agricultural mechanics class.

National Agricultural Library

www.nal.usda.gov

Information and resources from the USDA on a variety of subjects, including animals and livestock, food and nutrition, laws and regulations, plants and crops, natural resources, and the environment.

National Register of Big Trees

www.americanforests.org/resources/bigtrees/

Nominations for the largest of 826 species of trees in America, with color photos.

National Swine Registry

www.nationalswine.com

Information about swine breeds, shows and events, youth development activities, and teacher resources.

Nature Conservancy—Oklahoma

www.nature.org/wherewework/northamerica/states/oklahoma/about/con_main.html

Conservation activities for students, funding opportunities for educators, and ways for parents to encourage their children to connect with nature.

Nebraska Corn Board: Corn Curriculum

<http://nebraskacorn.gov/learn/teachers/the-corn-curriculum/>

Click on “Education & Youth” to access the National Corn Growers Association’s corn curriculum, which includes lesson plans across curriculum areas.

NIOSH Safety and Health: Agriculture

<https://www.cdc.gov/niosh/agforfish/>

Agriculture safety and health publications and links from the National Institute for Occupational Safety and Health, including information on ergonomics, grain handling, machinery, young workers, and other safety and health topics.

Noble Foundation Plant Image Gallery

<http://www.noble.org/apps/plantimagegallery/>

Designed to assist botanists, ecologists, natural resource managers, educators and hobbyists with the identification of plants commonly found in the southern Great Plains.

NRCS The Twelve Orders of Soil Taxonomy Posters

https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/class/data/?cid=nrcs142p2_053588

Free color posters, in PDF format, including one combined poster and 12 individual posters (one for each Order).

Science in Your Shopping Cart

www.ars.usda.gov/is/np/shopcart/shopcartintro.html

How agricultural research contributes to the abundance, variety, convenience, and healthfulness of the contents of your shopping cart.

Smithsonian National Zoological Park

<http://nationalzoo.si.edu/>

Information about a variety of animals, including farm animals, such as distribution, habitat, lifespan, conservation status, and more.

Soil Biology Movies

<http://agron-www.agron.iastate.edu/~loynachan/mov/defaultlow.html>

A series of 18 movies on life in the soil, to view online or to download.

The Accidental Scientist: Science of Cooking

www.exploratorium.edu/cooking/

Explore recipes, activities, and webcasts that will enhance your understanding of the science behind food and cooking.

University of Georgia's Center for Invasive Species and Ecosystem Health

www.bugwood.org

This website features great images of forest pests, trees, plants, stand types, silviculture practices, urban forestry, wildlife, and more!

U.S. Climate Data

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

Climate data by state and city.

The Bug Book: a garden field guide

<https://www3.epa.gov/region1/eco/uep/pdfs/BugBook.pdf>

A free, 52-page full-color guide from the Southside Community Land Trust.

USDA-NRCS Plants Database

<http://plants.usda.gov>

Information about U.S. vascular plants, mosses, liverworts, hornworts, and lichens; includes hundreds of free, downloadable fact sheets and plant guides.

USDA Living Science

www.agriculture.purdue.edu/USDA/careers/

Descriptions about 50 careers related to food, agriculture, and natural resources, with a color poster for each to download.

USDA-ARS Ideas for Science Fair Projects

www.ars.usda.gov/is/kids/AgSciProjects/ideas.htm

Science fair project ideas, plus an explanation of the parts of a science project: research question, hypothesis, procedure, results, and conclusion.

USDA Office of Communications, Radio Features Archive

<https://audioarchives.oc.usda.gov/>

Free podcasts on a variety of topics related to agriculture.

University of Vermont, Food and Nutrition: Eating What We Grow

<https://www.uvm.edu/sites/default/files/eating-what-we-grow.pdf>

Profiles and recipes for fruits and vegetables A-Z, including a brief history of each.

Utah Education Network

www.uen.org

K-12 lesson plans for a wide variety of subjects and grade levels.

USDA Complete Guide to Home Canning

www.uga.edu/nchfp/publications/publications_usda.html

Seven PDF instruction guides that describe the processes of selecting, preparing, and canning fruit, vegetables, meat, and jams and jellies, from the National Center for Home Food Preservation.

U.S. Forest Service

<http://www.fs.fed.us/learn/educators>

Learning resources for educators, including Natural Inquirer, a middle school science education journal.

Who's Coming to Dinner?

<https://catalog.extension.oregonstate.edu/em9046>

This 15-minute video examines the eating habits of cows, sheep, horses, and goats, and explores how forage selection, pugging, trampling, and fencing contribute to a pasture's health and sustainability.

Wilderness Education Curriculum

<http://carhart.wilderness.net>

A K-12 wilderness education curriculum from the Arthur Carhart National Wilderness Training Center, free to download.

You Are What You Eat

<https://www.bookstore.ksre.k-state.edu/pubs/MF3219.pdf> (student guide); <https://www.bookstore.ksre.k-state.edu/pubs/MF3237.pdf> (leaders guide).

Free student guide and leader's guide from the Kansas State Research and Extension Bookstore, providing lessons that focus on how good nutrition affects all systems in the body: cardiovascular, respiratory, digestive, and musculoskeletal. Includes learning checks with each chapter.



Architecture & Construction

Design in Wisconsin Housing: A Guide to Styles

<http://learningstore.uwex.edu/Design-in-Wisconsin-Housing-A-Guide-to-Styles-P188.aspx>

Free to download from the University of Wisconsin—Extension, this guide describes features of various architectural styles and illustrates each style with drawings.

Home Envelope

<https://www.ag.ndsu.edu/publications/landing-pages/home-farm/home-envelope-ae-1616>

This guide helps you figure out the steps to take to reduce energy use in the home and serves as an introduction to home energy use.

Basic Color Theory

<http://www.colormatters.com/color-and-design/basic-color-theory>

An introduction to color theory.

Cement & Concrete Basics

<http://www.cement.org/cement-concrete-basics>

How concrete is made, concrete components, production and construction, and more from the Portland Cement Association.

Healthy Housing Reference Manual

<http://www.cdc.gov/nceh/publications/books/housing/housing.htm>

A complete, 14-chapter guide to healthy housing, free to download; chapter titles include:

- Housing History and Purpose
- Basic Principles of Healthy Housing
- Disease Vectors and Pests
- Environmental Barriers
- Energy Efficiency

Architecture Week

www.architectureweek.com/today.html

The leading magazine of design and building online. It provides weekly news and features about architecture and construction, digital media, products and building culture. It includes free 3D models of classic architect-designed houses in the classic homes collection.

The Green Home Guide

www.greenhomeguide.com

Information and resources for green building and remodeling from the U.S. Green Building Council.

Building Big

www.pbs.org/wgbh/buildingbig/educator/index.html

Activities to increase students' awareness of the built environment and the impact of technology on society while teaching basic physical science concepts.

ConcreteNetwork.com

www.concretenetwork.com/

Design ideas and tools, design videos, weekly features, and more.

Paint & Decorating Retailers Association

www.pdra.org/

Association website that includes decorating advice.

NIOSH Safety and Health: Construction

<https://www.cdc.gov/niosh/construction/>

Construction safety and health publications and links from the National Institute for Occupational Safety and Health, including publications on asphalt, confined spaces, drywall, electrocution, ergonomics, excavations, falls, silicosis, and other safety and health topics.



Arts, A/V Technology & Communications

Graphic Arts Education and Research Foundation

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

The website of the Foundation, which includes information about PrintED, a national accreditation program, including the PrintED Manual to download.

Ribbett

www.ribbett.com

Free online photo editing made fun and easy - requires no download, installation, or sign-up!

PicMonkey

www.picmonkey.com

This online photo editor allows you to do many things including touching up photos and creating collages.

Aviary

<http://aviary.com>

Image editing and screen capturing tools.

Color Wheel Tutorial

www.worqx.com/color/color_wheel.htm

Illustrations and explanations of color wheel relationships.

Wisconsin Online Resource Center

www.wisc-online.com

Free registration provides access to thousands of learning objects.

Musicoverly

<http://musicoverly.com>

Experience many different styles of music from all over the world.

Glogster EDU

www.glogster.com

Use text, images, music, video, and hyperlinks to create an interactive poster.

Big Huge Labs

<http://bighugelabs.com>

Create posters, cards, puzzles, and more for classroom projects, notes, letters, or programs.

Audacity

<http://audacity.sourceforge.net>

A free, open-source, audio editing and recording program for use on Windows, Macs, and Linux operating systems, complete with tutorials.

FudgeGraphics

www.fudgegraphics.com

This site offers freebies, tutorials, and inspiration for design lovers.

Picture Correct

www.picturecorrect.com

Photography and photo manipulation tutorials and guides.

Pixton

<http://pixton.com>

A web-based comic strip generation tool that allows you to create your own digital cartoons.

Lulu

www.lulu.com

Self-publish your own e-book or calendar.

Stitch Diva Studios

www.stitchdiva.com

Step-by-step knitting instructions, free patterns, and sources for yarns and tools.

Gimp (General Image Manipulation Program)

www.gimp.org

Free photo retouching and graphic manipulation software.

Voki

www.voki.com

Create a speaking avatar within minutes; also includes tips for educators for making learning activities more engaging.

Be a Movie Director Game

<http://americanhistory.si.edu/onthemove/games/game3/>

Select a vehicle for a new movie, and then watch the movie you created, from the National Museum of American History.

Biography.com

www.biography.com

Biographies of famous people, both contemporary and historical.

Media Smarts

<http://mediasmarts.ca/>

Clearinghouse of ideas and resources for educators, including teaching units, handouts, reports, and background material for media and digital literacy.

The Learning Network—New York Times

<http://learning.blogs.nytimes.com>

Articles and activities designed to help students understand the story behind today's news events.

LIFE Magazine's Timeline

www.life.com/timeline

Tell a story of an event by creating a timeline using photos from the LIFE Magazine image archives.

MediaCollege.com

www.mediacollege.com

Free resources for film and digital media production.

Grammar Girl

<http://grammar.quickanddirtytips.com>

Quick tips that can help anyone improve his or her writing.

Editing with Movie Maker

www.windowsmoviemakers.net/Tutorials/HowToEditVideo.aspx

An easy to use tutorial that walks you step-by-step through the video editing process using Windows Movie Maker.

PaperRater

www.paperrater.com

A free online proofreading, grammar checker, and a plagiarism detection tool.

Animoto

<http://animoto.com>

A tool that makes web-based videos from still photos or videos.

ToonDoo

www.toondoo.com

Allows you to create your own cool comic strips with just a few drag and drops with your mouse.

Photoscape

<http://www.photoscape.org>

An easy-to-use program that enables you to enhance photos.

Blender

www.blender.org

A free open-source 3D/Animation program; the site includes several tutorials and information about joining the developers' community.

Wordle

www.wordle.net

Create word clouds based on term papers, poems, historical documents, and speeches.

Fotobabble

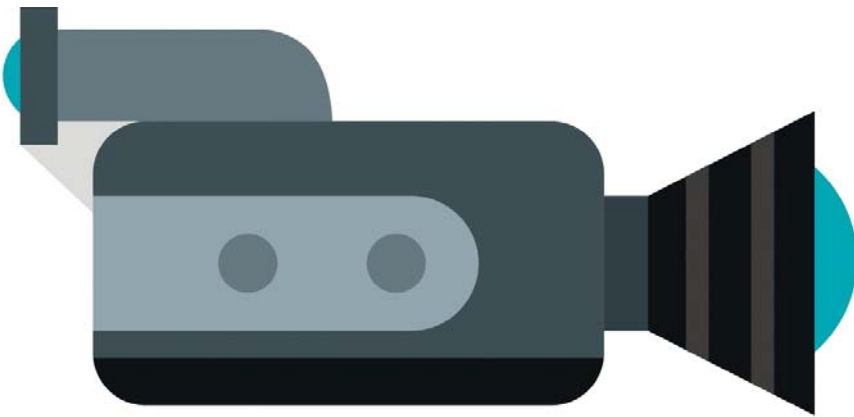
<http://fotobabble.com>

Add an audio caption to your favorite photo.

SoundzAbound

www.soundzabound.com

A relatively low cost, online source for royalty-free music and sound effects for schools.



Business, Management & Administration

Everyday Economics

<https://www.dallasfed.org/educate/everyday.aspx>

A series of free guides from the Federal Reserve Bank of Dallas, explaining entrepreneurs, globalization, international trade, and money. Website also includes interactive whiteboard lessons.

Essential Workplace Skills

<http://wem.mb.ca/essential-skills/>

Downloadable information on the nine essential workplace skills.

Business Etiquette Around the World

<http://www.businessinsider.com/a-guide-to-business-etiquette-around-the-world-2015-5>

Quick guide to business etiquette around the world.

Social Media Success Metrics

<https://www.ama.org/ECDFileRepository/Special-Report-Social-Media-Success-Metrics.pdf>

A free guide from the American Marketing Association.

Strategic Planning Toolkit

www.ovcttac.gov/views/resources/dspStrategicPlan.cfm

The Strategic Planning Toolkit is designed to function as a guide throughout the strategic planning process. The Toolkit offers guidelines you can follow and tools and resources for you to draw on at every step. It is organized to help you both learn about the planning process and use the process. The six sections of the Toolkit correspond to a six-step strategic planning process.

Boost Your Sales with Online Marketing

http://publications.gc.ca/collections/collection_2016/bdc/lu133-3-2013-eng.pdf

A guide for entrepreneurs from the Government of Canada.

Compendium of Knowledge Solutions

www.adb.org/publications/compendium-knowledge-solutions

This compendium from the Asian Development Bank profiles dozens of tools to build competencies in strategy development, management techniques, collaboration, knowledge sharing and learning, and knowledge capture and storage.

World Factbook

<http://cia.gov/library/publications/the-world-factbook/>

Detailed country profiles, updated annually, from the Central Intelligence Agency; also available as an app.

Better Business Bureau

<https://www.bbb.org>

Check out a business or charity, or file a complaint.

FTC Bureau of Consumer Protection

www.ftc.gov/bcp/

Consumer protection information from the Federal Trade Commission.

A Legal Guide to the Internet

https://mn.gov/deed/assets/legal-guide-to-the-internet_tcm1045-133711.pdf

A publication available for download from the Minnesota Department of Employment and Economic Development that discusses ecommerce, copyright, and other topics.



Education & Training

The Best Education Infographics

<http://elearninginfographics.com/>

Infographics on a range of topics, including e-learning, gamification, and social learning.

Brightwave Thinking

<http://www.brightwavegroup.com/our-thinking/index.html>

Articles, blogs, and expert guides from Brightwave Group, “the leading global agency for next generation learning solutions, products and services”.

KQED Education Digital Tools

<http://www.pbslearningmedia.org/collection/digital-tools/>

In these short video tutorials from KQED, learn the basics for how to use free online tools for teaching and learning.

Hoonuit Blog

<https://www.hoonuit.com/blog>

Blog provided by Atomic Learning, “an online professional learning company focused on the common challenges Higher Education faces today”.

Adult Basic Education Resources

<https://www.okcareertech.org/educators/cimc/adult-basic-education-resources>

Resources—some free and others for purchase—from the Curriculum and Instructional Materials Center.

SABES Curriculum Resources

<http://www.sabes.org/resource-type/curriculum>

The System for Adult Basic Education Support (SABES) is the ABE professional development system of the Massachusetts Department of Elementary and Secondary Education, Adult and Community Learning Services unit.

Corporation for a Skilled Workforce

<http://skilledwork.org/>

Authors of the report, Making a Market for Competency-Based Credentials, aimed at “articulating a foundation for our collective work by analyzing the credentialing landscape, identifying promising credentialing approaches, and assessing what is needed to create a clear and compelling credentials marketplace.”

NIOSH Talking Safety Curriculum

<http://www.cdc.gov/niosh/talkingsafety/>

A foundation curriculum in occupational safety and health customized for each state; includes the PDF curriculum, PowerPoint presentation, and companion video.

OSHA Videos

<https://www.osha.gov/video/index.html>

OSHA videos to play or download, organized alphabetically.

WorkSafeBC Resources

[https://www.worksafebc.com/en/forms-resources#sort=relevancy&f:topic-facet=\[Health%20%26%20Safety\]&f:language-facet=\[English\]](https://www.worksafebc.com/en/forms-resources#sort=relevancy&f:topic-facet=[Health%20%26%20Safety]&f:language-facet=[English])

Worker safety resources from the Workers' Compensation Board of British Columbia.

Assistive Technology: Resource Roundup

<http://www.edutopia.org/article/assistive-technology-resources>

Websites, blogs, articles, and videos that provide information and tools related to understanding, selecting, and assessing assistive technology.

Competency-Based Education: Oklahoma's Recipe for Success

<http://www.okcareertech.org/educators/cimc/resources/downloads-1>

Keys to competency-based education in the form of recipe cards, free to download from the Oklahoma Department of Career and Technology Education.

Mathematics Assessment Project

<http://map.mathshell.org/pd.php>

Five prototype professional development modules that are activity-based and built around a collection of example classroom activities.

Assessing Creativity: A Guide for Educators

<https://nrcgt.uconn.edu/wp-content/uploads/sites/953/2015/04/rm02170.pdf>

This 2002 monograph from The National Research Center on the Gifted and Talented deals with recognizing or assessing creativity; chapters include an introduction; definitions and characteristics; reviewing, evaluating, selecting, and using instruments; a design and plan for systematic assessment; and linking assessment and instruction.

CareerTech Testing Center

<http://www.okcareertech.org/about/state-agency/divisions/testing>

Oklahoma's premier source for competency assessments, skill standards, and online testing.

Khan Academy

www.khanacademy.org

Thousands of videos, exercises, and assessments covering math, science, economics, computer science, humanities and test prep!

National Collaborative on Workforce and Disability (NCWD)

<http://www.ncwd-youth.info/>

Free resources to assist workforce development systems to serve disabled and disadvantaged youth.

Professional Development

<http://www.discoveryeducation.com/what-we-offer/professional-development/explore/for-administrators.cfm>

Discovery's site for professional development.

Mind42

<http://mind42.com>

A collaborative mind mapping tool that allows you to easily organize your thoughts—a great tool for developing research papers.

WebQuest

<http://webquest.org>

A WebQuest is an inquiry lesson format that uses available information on the web as resources.

Poll Everywhere

www.polleverywhere.com

Encourage more student participation in traditional lectures with this free classroom response system that works using cell phones or computers.

Quizlet

<http://quizlet.com/>

A great online tool to help students practice vocabulary and language.

Thinkfinity

www.thinkfinity.org

Free resources for educators from the Verizon Foundation.

The Futures Channel

www.thefutureschannel.com

Movies and activities demonstrating real-world applications of math and science.

Prezi

<http://prezi.com/>

Create engaging, nonlinear, “zooming” presentations.

Voicethread

www.voicethread.com

Voicethread is a collaborative, multimedia tool for creating slide shows that incorporate images, documents, and videos; also available as an app.

Blabberize

<http://blabberize.com>

Animate still photos to create talking pictures that can be used to spice up a presentation.

The Spider’s Apprentice

www.monash.com/spidap.html

Learn how web search engines work and find tips for locating exactly what you want on the web.

Hot Potatoes

<http://hotpot.uvic.ca/tutorials6.php>

Applications that enable you to create interactive multiple-choice, short-answer, jumbled-sentence, crossword, matching/ordering and gap-fill exercises for use on the web.

Discovery Classroom Resources

<http://school.discoveryeducation.com>

Lesson plans library, worksheets to go, and more from Discovery Education.

Distance Education and Training Council

www.detc.org

Nonprofit educational association that promotes excellence in distance education.

Bill & Melinda Gates Foundation

www.gatesfoundation.org

Website about the Foundation and its programs and efforts on a range of subjects, including education.

FREE—Federal Resources for Educational Excellence

<https://www2.ed.gov/free>

Links to hundreds of teaching and learning resources from federal agencies, on topics such as arts and music, health and physical education, language arts, math, science, and U.S. history.

FutureLab

<https://www.nfer.ac.uk/publications/>

A comprehensive website for contemporary educational research, school development projects, and related resources.

NationalMap.gov

<https://nationalmap.gov/>

A wide range of printable, dynamic, and interactive maps and articles that illustrate dozens of trends and topics about America. The National Map is a collaborative effort among the USGS and other Federal, State, and local partners to improve and deliver topographic information for the Nation.

Lesson Planet

www.lessonplanet.com

Thousands of online educational resources, including lesson plans for art, music, education, health and nutrition, language arts, geography, math, science and technology, and social studies.

Martindale's—The Reference Desk

www.martindalecenter.com

Online calculators and other resources relating to almost every subject including mathematics, agriculture, engineering, chemistry, food, and more.

Sweet Search

www.sweetsearch.com

A search engine designed especially for students that link to sites approved by research experts, teachers, and librarians.

U.S. Copyright Office

www.copyright.gov

Information about copyright, how to register a work, law and policy, and more.

History.com

www.history.com

Educational videos and television programming.

USDA National Institute of Food and Agriculture

<https://nifa.usda.gov/land-grant-colleges-and-universities-partner-website-directory>

Links to Cooperative Extension Service partners in every state.

Career and Technical Education Resources

www.khake.com/page50.html

Hundreds of links to resources on topics related to career and technical education.

We Shall Overcome

www.nps.gov/history/nr/travel/civilrights/

Links to, and explanations of, historic places in the civil rights movement in America, by state.

Today in History

<http://memory.loc.gov/ammem/today/today.html>

Memorable events for each day of the year, from the Library of Congress.

EDSITEment

<http://edsitement.neh.gov/calendar/>

Historic events calendar, with lesson plans, from the National Endowment for the Humanities.

LibrarySpot.com

www.libraryspot.com

Encyclopedias, maps, online libraries, quotations, dictionaries, and more.



Finance

Building Wealth

<http://www.dallasfed.org/microsites/cd/wealth/index.html>

A personal finance education resource that presents an overview of wealth-building strategies, from the Federal Reserve Bank of Dallas. Free to download; free printed copies also available.

Building Your Future

<https://www.actuarialfoundation.org/building-your-future/>

A free financial literacy curriculum from The Actuarial Foundation for student's grades 9-12; teacher's guides and student books cover banking, financing, investing, and succeeding.

Expect the Unexpected With Math®

<https://www.actuarialfoundation.org/expect-the-unexpected-with-math/>

The dynamic lessons and activities in this series from The Actuarial Foundation use story lines that students in grades 6-8 find interesting to show them the fun and relevance of math.

Math Academy

<https://www.actuarialfoundation.org/math-academy/>

Created by teachers for teachers, the Math Academy series from The Actuarial Foundation features hands-on activities and a fun learning environment for the teaching of mathematics to students.

Federal Reserve Education Resources

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

Resources by audience from the Federal Reserve Bank.

Jump\$tart's Reality Check

<http://www.jumpstart.org/reality-check.html>

Allows students to see how much it will cost to live the lifestyle they want to live.

Minimum Wage Laws

<http://www.dol.gov/whd/minwage/america.htm>

A map to access minimum wage laws by state, from the U.S. Department of Labor.

Living Wage Calculator

<http://livingwage.mit.edu/>

A calculator to estimate the cost of living in your community or region, from MIT.

Consumer World

www.consumerworld.org

Everything consumer—bargains, ploys, price checkers, you name it.

Consumer Action Handbook

<https://www.usa.gov/handbook>

The Consumer Action Handbook is a free resource guide that provides general information on shopping for goods and services and tips about your consumer rights.

FDIC Consumer News

www.fdic.gov/consumers/consumer/news/

This site promises "...practical guidance on how to become a smarter, safer user of financial services."

MyMoney.gov

www.mymoney.gov/

Website of the U.S. Financial Literacy and Education Commission, including calculators and information on budgeting, credit, home ownership, paying for education, and saving and investing.

Getting Through Tough Financial Times

<http://web.extension.illinois.edu/toughtimes/>

A website providing confidential help for families in need, including free educational resources to download, states' contact information, and more.

FTC Consumer Information

www.ftc.gov/bcp/consumer.shtm

Advice from the Federal Trade Commission on a variety of consumer topics, from automobiles to telemarketing.

Economic Education Resources, Federal Reserve Bank of Boston

www.bos.frb.org/education/econedpubs.htm

Free publications to download from the Boston Fed, including The Ledger, an economic education newsletter for teachers.

Web Winder

www.webwinder.com

Business and financial calculators available online.

Government & Public Administration

LEADS Curriculum Notebook

<http://www.ksre.ksu.edu/bookstore/pubs/S137.pdf>

LEADS stands for Leadership Excellence and Dynamic Solutions. This 357-page curriculum from Kansas State University was designed to assist Extension educators as they implement leadership programs within their counties. Its units and modules offer a wealth of leadership training resources on topics such as:

- The Leader Within You
- Values and Ethics
- Strengths and Styles
- Building Trust
- Managing Conflict in Groups
- Dealing With Change

Center for Responsive Politics

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

“Your nonpartisan guide to money’s influence on U.S. elections and public policy”.

Clerk’s Floor Summary

<http://clerk.house.gov/floorsummary/floor.aspx>

U.S. House proceedings for the last seven legislative days.

Federal Election Commission

<https://www.fec.gov/data/>

Provides a single point of entry to campaign finance data.

Learning Today, Leading Tomorrow: Interpersonal Leadership Skills, Valuing Diversity

<https://extension.psu.edu/learning-today-leading-tomorrow-interpersonal-leadership-skills-valuing-diversity>

A leadership curriculum from Penn State College of Agricultural Sciences designed to help individuals develop and strengthen in valuing diversity.

House Live

<http://houselive.gov>

This site provides live and on-demand video access to the floor proceedings of the U.S. House of Representatives.

Economy-at-a-Glance Tables

www.bls.gov/eag/

Tables organized by state and metropolitan area, from the Bureau of Labor Statistics.

A - Z Index of U.S. Government Departments and Agencies

<http://www.usa.gov/directory/federal/index.shtml>

This site provides a listing of federal departments and agencies.

Peace Corps

www.peacecorps.gov

An organization of volunteers who help improve the lives of countless individuals in over 100 foreign countries.

Supreme Court Calendar

www.supremecourtus.gov

View the calendar of oral arguments before the U.S. Supreme Court, court rulings, and opinions.

USAjobs.gov

www.usajobs.gov

Official jobs site of the federal government.

Higher Ed Jobs

www.higheredjobs.com

View job listings posted by most major colleges and universities.



Health Science

National League of Nursing — Teaching Resources

<http://www.nln.org/professional-development-programs/teaching-resources/practical-nursing>

Provides guidelines that describe the four program outcomes of human flourishing, nursing judgment, spirit of inquiry, and professional identity as a foundation for curriculum redesign.

Study.com — List of Free LPN Resources

http://study.com/articles/List_of_Free_Online_LPN_Classes_and_Educational_Materials.html

List of free online LPN classes and educational materials, compiled by Study.com.

Healthalicious

<http://anrcatalog.ucanr.edu/pdf/8450.pdf>

Lessons about food and physical activity from the University of California.

CDC FastStats

<http://www.cdc.gov/nchs/fastats/>

The FastStats site provides quick access to statistics on topics of public health importance and is organized alphabetically. Links are provided to publications that include the statistics presented, to sources of more data, and to related web pages.

Phillips Learning Connection — Medical Games

<https://www.theonlinelearningcenter.com/free-online-medical-games.aspx>

Free online games dealing with anatomy and physiology, x-ray, medical terminology, MRI, vascular, cardiology, and more.

Learning Nurse Resources Network

<http://www.learningnurse.org/index.php/assessment/games>

Nursing games designed to make your nurse learning/education more interesting, engaging and fun.

Handbook of Patient's Spiritual and Cultural Values for Health Care Professionals

<http://www.healthcarechaplancy.org/81-hidden/474-publications.html>

A free guide to download from the HealthCare Chaplaincy Network.

Inner Body

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

Explore the human body like never before with hundreds of interactive anatomy pictures and descriptions of thousands of objects in the body.

Techtiplib

<https://www.techtiplib.com/2012/08/top-25-smartphone-apps-for-family-nutrition.html>

This site has a listing of the top 25 smartphone apps for family nutrition.

Nursing Simulation Scenario Library

<http://cms.montgomerycollege.edu/nursingsims/>

This collection of videos includes a simulation scenario as well as accompanying documentation that can be used to recreate the scenarios.

The Visible Human Project

www.nlm.nih.gov/research/visible/visible_human.html

Complete, anatomically detailed, three-dimensional representations of normal male and female bodies, created from cadavers.

Healio

www.healio.com

In-depth specialty clinical information website that allows you to select and tailor news and education to fit your needs, including news reporting, dynamic multimedia, question-and-answer columns, CME and other educational activities in a variety of formats, quick reference content, blogs, peer-reviewed journals and a full line of popular book titles.

Alzheimer's Association

www.alz.org

The Alzheimer's Association's Brain Tour provides a fascinating interactive explanation about how the brain works and how Alzheimer's disease affects the brain.

NIH Health Information A to Z

<http://health.nih.gov>

Health information organized by body systems, health and wellness, conditions/diseases, and procedures.

Health.gov

www.health.gov

Portal to the websites of federal departments and agencies, and their health initiatives and activities.

The Pathology Guy

www.pathguy.com

Dozens of resources on pathology topics, general pathology, and resources for the medical teacher.

NursingNet

www.nursingnet.org

Online nursing resources.

Cells Alive

www.cellsalive.com

Animations and graphics on cell biology, microbiology, immunology, and microscopy.

NIH Office of Science Education

<http://science.education.nih.gov>

Educational resources from the National Institutes of Health, organized by topics, grade levels, and formats.

NIGMS Interactive Games

<http://publications.nigms.nih.gov/classroom/quiz/>

Multi-level, interactive games and puzzles about cells, proteins, the chemistry of health, and other topics from the National Institute of General Medical Sciences.

The Human Heart

www.fi.edu/learn/heart/

An online exploration of the human heart from The Franklin Institute, including enrichment activities.

CDC's Health Marketing Resources and Tools

www.cdc.gov/healthmarketing/resources.htm

Provides a guide for implementing strategies that can be used in public health education, research and communication efforts.

CDC's Science Ambassador

<https://www.cdc.gov/careerpaths/scienceambassador/lesson-plans/index.html>

Engaging high school and middle school lesson plans that introduce students to real public health problems and nurture an interest in careers in the public health industry.

Inside the Brain

www.alz.org/brain/01.asp

An Interactive Tour from the Alzheimer's Association.

Interactive Hand Hygiene Course

www.cdc.gov/handhygiene/training/interactiveEducation/

From the Centers for Disease Control and Prevention.

Kansas State University, Center on Aging

<http://www.kdads.ks.gov/LongTermCare/PEAK/peak.html>

Free instructional modules to download.



Hospitality & Tourism

Culinary Techniques for Healthy School Meals

<http://www.nfsmi.org/Templates/TemplateDefault.aspx?qs=cEIEPTlxNg>

Free print and video lessons from the University of Mississippi, Institute of Child Nutrition. The video lessons feature chefs from the Culinary Institute of America demonstrating step-by-step food preparation methods. The programs highlight the USDA Recipes for Schools.

International Hotel and Restaurant Association

<http://ih-ra.com/>

Publications, industry issues and news, and a member database.

Oklahoma Today Magazine Digital Archives

<http://digital.library.okstate.edu/oktoday/index.html>

Free digital versions of all issues of Oklahoma Today magazine since the 1950s, including feature stories that make great classroom resources for study in travel, geography, history, social studies, and other subjects.

Oklahoma Tourism

www.Travelok.com

Information on exploring Oklahoma and helpful links are found on this site.

Oklahoma Agritourism: Oklahoma's Growing Adventure

www.oklahomaaagritourism.com

Links to Oklahoma agritourism destinations, resource manual, directory, and more.

National Travel and Tourism Office

<http://tinet.ita.doc.gov>

Official U.S. Government site offering information about travel in the U.S. and abroad, statistics, and policies.

Oklahoma Route 66 Association

www.oklahomaroute66.com

Website of the Association, featuring news, preservation information, business listings, and facts about the historic highway.

Hcareers.com

www.hcareers.com

Search site for hospitality careers, from hotel and resort jobs to cruise ship positions, entertainment jobs, and travel/tourism careers.

Kitchen Companion: Your Safe Food Handbook

http://www.fsis.usda.gov/wps/wcm/connect/6c55c954-20a8-46fd-b617-ecffb4449062/Kitchen_Companion_Single.pdf?MOD=AJPERES

This online publication from the USDA Food Safety and Inspection Service provides important updated information about safe food handling practices and food-borne illnesses.



Human Services

ProCon.org

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

“More than 12,000 pages of highly curated, referenced content . . . for people to question information, evaluate opposing views, and debate them in a respectful way”.

Resident Abuse Prevention Poster

<http://www.okcareertech.org/educators/cimc/resources/downloads-1/preventresidentabuseposter.pdf>

A free poster to download from the Curriculum and Instructional Materials Center of the Oklahoma Department of Career and Technology Education.

AI Siebert Resiliency Center

<http://resiliencycenter.com/>

Stories useful in discussing goal-setting and overcoming barriers.

Working With Differences in Communities

<https://catalog.extension.oregonstate.edu/manual13>

A free book from Oregon State University Extension; just click on the “View It Now” button to access the free PDF.

New Nibbles: A Guide to Feeding Infants

<http://anrcatalog.ucanr.edu/pdf/8487.pdf>

From the University of California.

Cooking 101

<https://www.ag.ndsu.edu/publications/food-nutrition>

A series of full-color booklets, free to download, showing singles and couples how to equip kitchen, healthy eating on the run, cooking in small spaces using a microwave oven, putting a healthy spin on pre-packaged favorites, grocery shopping made easy, and more.

Building Bridges

<http://files.peacecorps.gov/wws/pdf/BuildingBridges.pdf>

This is a Peace Corps classroom guide to cross-cultural understanding. The lessons in this book will: help students better understand their own culture and how it has shaped them.

Elder Abuse Presentation Sets

<https://ncea.acl.gov/whatwedo/education/curricula.html>

From the National Center on Elder Abuse, this presentation materials toolkit assists presenters in developing presentations on elder abuse and related phenomena.

Portion Distortion Resources

<http://www.nhlbi.nih.gov/health/educational/wecan/eat-right/distortion.htm>

Portion and serving size resources from the National Heart, Lung and Blood Institute.

Food Allergy Field Guide

<https://www.foodallergy.org/file/field-guide.pdf>

Free guide to download from Food Allergy Research & Education (FARE).

CalorieKing

<http://www.calorieking.com/foods/>

A handy tool for calculating calories consumed.

National Eating Disorders Association

<http://www.nationaleatingdisorders.org/learn>

Website includes information about eating disorder types and symptoms, contributing factors and prevention, treatment, recovery, toolkits, and more.

Dementia Care Series

<https://www.fightdementia.org.au/publications/quality-dementia-care>

Resources from Dementia Australia.

Fight Bac!

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

Free food safety resources from the Partnership for Food Safety Education.

BHG Videos

<http://www.bhg.com/videos/video-index>

Videos from Better Homes and Gardens, including home storage, small-space ideas, furniture arranging, how to pack for a trip, and more.

King Arthur Flour Videos

<http://www.kingarthurfLOUR.com/shop/VideoHome>

Videos about baking techniques, tutorials, recipes, and more.

National Suicide Prevention Lifeline

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

Information about crisis centers, ways to get involved, a suicide prevention toolkit, and more.

DoSomething.org

<https://www.dosomething.org/us>

“Volunteer campaigns that impact every cause”.

Grocery Store Layout

<https://www.realsimple.com/food-recipes/shopping-storing/more-shopping-storing/grocery-store-layout>

Secrets revealed from Real Simple magazine.

Green Living Tips

<http://www.goodhousekeeping.com/home/a18573/ways-to-go-green/>

Easy ways to live greener, from Goodhousekeeping.com.

How Product Placement Works

<http://money.howstuffworks.com/product-placement.htm>

Explanation of product placement from HowStuffWorks.

Babysitter Information Sheet

<http://lifeyourway.net/free-printables/home-management-notebook/babysitter-information/>

Free form to download from Life Your Way.

ABCs of Child Development

<http://www.pbs.org/wholechild/abc/>

Child development milestones from PBS.org.

Living Sustainably: It's Your Choice

<https://catalog.extension.oregonstate.edu/ec1614>

“This guide focuses on making choices to improve quality of life and reduce negative impacts on the environment. Contains information and activities to help you be more thoughtful about lifestyle choices and create your personal version of sustainable living.” Click on the “View it now” button to access the free PDF.

That's Not Cool Callout Cards

<http://thatsnotcool.com/callout-cards/>

Developed by Futures Without Violence in partnership with the Department of Justice's Office on Violence Against Women and the Advertising Council, That's Not Cool is an award-winning national public education initiative speaking to youth about healthy relationships and helping them recognize, avoid, and prevent dating violence in their lives.

Safe Place

<http://nationalsafeplace.org/>

A national youth outreach and prevention program for young people in need of immediate help and safety.

Safety Training for Homecare Workers

<http://www.cdc.gov/niosh/docs/2015-102/>

Provides the files for Caring for Yourself While Caring for Others, a free and active curriculum to assist trainers in meeting the health and safety training needs for homecare workers and to enhance communication between homecare workers and their clients.

Stop Bullying

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

StopBullying.gov provides information from various government agencies on what bullying is, what cyberbullying is, who is at risk, and how you can prevent and respond to bullying.

It Can Wait

<http://itcanwait.com/>

AT&T's program to stop teens from texting and driving; includes a texting while driving simulator.

Statistics on the Aging

<https://agingstats.gov/>

Federal interagency forum on aging-related statistics.

PEAK 2.0

<http://www.he.k-state.edu/aging/peak2.php>

Promoting Excellent Alternatives in Kansas Nursing Home Education Initiative modules feature information about nursing home culture, activities, and other issues.

Population Clocks

<https://www.census.gov/popclock/>

U.S. and world population clocks.

ChildStats.gov

www.childstats.gov/

Forum on child and family statistics.

Data Resource Center for Child & Adolescent Health

www.childhealthdata.org

Health data available by survey or map.

NAEYC

www.naeyc.org

Website of the National Association for the Education of Young Children.

Alexander Graham Bell Association for the Deaf and Hard of Hearing

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

Helps families, health care providers, and education professionals understand childhood hearing loss and the importance of early diagnosis and intervention.

American Association on Intellectual and Developmental Disabilities (AIDD)

www.aamr.org

Professional association by and for professionals who support people with intellectual and developmental disabilities.

Council for Exceptional Children

<https://www.cec.sped.org/>

Largest international professional organization dedicated to improving the educational success of individuals with disabilities and/or gifts and talents.

BeautyTech

www.beautytech.com

Resources, articles, message boards, links and more, covering every aspect of the industry.

Salon Magazine

www.salonmagazine.ca

Salon Magazine's articles and features on beauty, wellness, and style.



Information Technology

GetNetWise

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

Resources on topics relating to Internet education and safety.

Online News Association Resources

<http://journalists.org/resources/>

Tools, programs, technologies and other opportunities for the digital journalism community.

Google url shortener

<https://goo.gl/>

Allows you to shorten a long url.

CERT

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

Information about Internet security issues from the Software Engineering Institute at Carnegie Mellon University.

Google, Google, and More Google

www.google.com/intl/en/options/

Google has expanded well beyond its well-known search engine—make long distance phone calls using Google Voice, draw 3D building models using Google SketchUp, and more.

Web Designer Depot

www.webdesignerdepot.com

This site is a good source for web design and development tips.

SiteHoover

<http://sitehoover.com>

Create a homepage with links to all of your favorite websites.

Jing

<https://www.techsmith.com/jing-tool.html>

Create screen captures that can be instantly shared by email or social media.

WordPress

<http://wordpress.org>

Build your own classroom blog or website.

Open Office

<http://openoffice.org>

Free, open-source software applications that allow you to edit Microsoft Office documents.

Learn to Create Websites

<http://w3schools.com>

Tutorials for learning all types of web production—HTML, CSS, PHP, XML, Flash and more.

Internet Society

www.isoc.org/internet/history/

Links to a range of perspectives on the history of the Internet.

Distance Education and Training Council

www.detc.org

Nonprofit educational association that promotes excellence in distance education.

Webopedia

www.webopedia.com/

The online computer dictionary for computer and Internet terms and definitions.

WiredSafety.org

www.wiredsafety.org

Resources to help kids and parents navigate the Internet more safely.

NetSmartz411

www.netsmartz411.org

Internet safety helpdesk.

OnGuard Online

www.onguardonline.gov

Practical computer safety tips from the federal government and the technology industry.

MERLOT

<http://merlot.org>

MERLOT (Multimedia Educational Resource for Learning and Online Teaching) is an open source site that instructors can use to add peer reviewed content to courses.

StumbleUpon

www.stumbleupon.com

StumbleUpon allows you to find sites that interest you.

Wiki Walk-Through

<http://www.teachersfirst.com/content/wiki/>

This tutorial talks about the basics of using a wiki, and then allows teachers to peruse content and grade-specific ideas for using wikis in the classroom.

Edublogs

www.edublogs.org

One of the world's most popular blogging services, designed exclusively for educators.

Color Vision by Cal Henderson

<https://www.iamcal.com/misc/colors/>

This site has a tool that allows you to simulate the appearance of the site's colors for people with different color visions/deficiencies.



Law, Public Safety, Corrections & Security

VERA Institute of Justice

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

The Vera Institute of Justice combines research, technical assistance, and demonstration projects to help leaders in civil society improve the systems people rely on for justice and safety. Vera works with law enforcement and government agencies to reduce crime and promote efficient policing while improving public safety.

Victim Impact: Listen and Learn Curriculum

https://www.ovcttac.gov/victimimpact/units_toc.cfm

Thirteen free training units to download from the Office for Victims of Crime; includes files for the facilitator manual, participant workbook, and video clips.

Uniform Crime Reporting

<https://ucr.fbi.gov/ucr>

The Uniform Crime Reporting program of the FBI. Includes the annual report, Crime in the United States, which compiles the volume and rate of violent and property crime offenses for the nation and by state.

National Forensic Science Technology Center YouTube Page

<https://www.youtube.com/user/TheNFSTC>

Includes Forensic Updates--“the latest in forensics news from around the world”—science “sound bytes,” forensic tests, and more.

Crime Scene Investigation Guide

<https://www.nfstc.org/bja-programs/crime-scene-investigation-guide/>

Developed by crime scene experts, this comprehensive, step-by-step guide leads law enforcement through the crucial, first phase of the justice process. Free for download as a PDF or for your favorite e-reader.

Policing in the post-9/11 era

<http://publications.gc.ca/site/eng/9.688098/publication.html>

A free archived document from the Government of Canada.

Forensic Science Simplified

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

From firearms examination to video enhancement, this site provides simple, easy-to-understand explanations of different forensic disciplines. Each section presents the principles behind the techniques, approaches for discovering and collecting evidence, and an overview of how it's enhanced and processed once it gets back to the lab. Includes free PDF and e-reader downloads.

Fingerprint Sourcebook

<http://nij.gov/publications/Pages/welcome.aspx>

Free to download from the National Institute of Justice, the Sourcebook covers the anatomy and physiology of friction ridge skin (the uniquely ridged skin found on the palms and soles); techniques for recording exemplars from both living and deceased subjects; latent print development, preservation and documentation; equipment and laboratory quality assurance; perceptual, cognitive and psychological factors in expert identifications; and legal issues.

Protecting Kids Online

<https://www.consumer.ftc.gov/topics/protecting-kids-online>

Resources for parents, teachers and kids.

COPS Publications

<http://www.cops.usdoj.gov/COPSPublications>

Website of the publications page of the Community Oriented Policing Services of the U.S. Department of Justice National Partnership for Careers in Law, Public Safety, Corrections and Security.

Keys to a Career in Law Enforcement Poster

<http://www.okcareertech.org/educators/cimc/resources/downloads-1/lawenforcementposter.pdf>

Developed in cooperation with the National Partnership for Careers in Law, Public Safety, Corrections, and Security, this free poster lists activities and behaviors that will keep you on track for a career in law enforcement.

Crime Scene Investigation

www.crime-scene-investigator.net

Information and links about all aspects of criminal investigation.

FBI Kids Pages

<https://www.fbi.gov/fbi-kids>

Children and their parents can learn more about the FBI through age-appropriate games, tips, stories and interactive activities. There is also information on countering violent extremism for teens on this site.

Officer.com

www.officer.com

A comprehensive law enforcement website.

interFIRE.org

www.interfire.org

This is a resource site for fire investigators, fire insurers, law enforcement, and others.

Corrections.com

www.corrections.com

Information and related links for those interested in corrections can be found here.

Cultural Awareness Supplement for Law Enforcement

<https://www.okcareertech.org/educators/cimc/resources/downloads-1/CulturalAwarenessSupplementtoLawEnforcementI.pdf>

A free guide from the Curriculum and Instructional Materials Center, a division of the Oklahoma Department of Career and Technology Education.

Multicultural Communication Awareness for Police

http://publications.gc.ca/collections/collection_2008/ps-sp/PS63-2-1998-9E.pdf

A technical report from the Government of Canada.



Manufacturing

Grand Challenges for Engineering

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

Explanations of the top engineering challenges for the 21st century, from the National Academy of Engineering.

Right Skills Now

<http://rightskillsnow.org/>

The Right Skills Now for Manufacturing program builds on the success of and demand for industry-recognized credentials and competency-based learning in both education and industry.

Manufacturing Institute

<http://www.themanufacturinginstitute.org>

"The authority on the attraction, qualification, and development of world-class manufacturing talent".

AWS Education Resources

<http://www.aws.org/education/Resources>

Resources compiled by the American Welding Society.

SME Education Foundation

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

Website from the Society of Manufacturing Engineers Education Foundation.

How Gear Ratios Work

<http://auto.howstuffworks.com/gears.htm>

Explanation with illustrations from HowStuffWorks.com.

How Everyday Things Are Made

<http://manufacturing.stanford.edu>

Video tours showing how items are manufactured, from airplanes to jelly beans, presented by the Alliance for Innovative Manufacturing at Stanford University.

Manufacturing Career Guide

www.khake.com/page40.html

Links for exploring manufacturing careers can be found here.

NIOSH

www.cdc.gov/niosh/

Workplace safety and injury prevention resources, organized by industries and occupations, hazards and exposures, diseases and injuries, chemicals, safety and prevention, and emergency preparedness and response.

Reading a Micrometer

www.upscale.utoronto.ca/PVB/Harrison/Micrometer/Micrometer.html

Animation showing how a micrometer works and how to read one.

Greatest Engineering Achievements of the 20th Century

www.greatachievements.org

The top 20 achievements and how engineering shaped the century, from the National Academy of Engineering.

Lincoln Electric, Education Center

www.lincolnelectric.com

Information on skilled trades, lists seminars and workshops, welding safety information, and operators manuals.



Marketing

CDC's Guide to Writing for Social Media

<http://www.cdc.gov/socialmedia/Tools/guidelines/pdf/GuidetoWritingforSocialMedia.pdf>

Information to help you write more effectively using multiple social media channels, particularly Facebook, Twitter, and mobile phone text messaging, from the Centers for Disease Control and Prevention.

Ewing Marion Kauffman Foundation

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

Educational materials, reports, and other resources relating to entrepreneurship.

SBA Small Business Administration

www.sba.gov

Loans and grants, training, small business law, guidelines and tips for pricing, selling, and other assistance.

AllBusiness.com

www.allbusiness.com/sales/2976221-1.html

Tips and advice on sales and selling in a small business environment.

BusinessUSA

<https://www.usa.gov/business>

This website is the small business section of USA.gov and provides information for small businesses.

International Trade Association's Online Bookstore

<http://trade.gov/publications>

Links to ITA's most popular book titles, including many that are free to download.

Business Etiquette

www.emilypost.com/business-etiquette

Tips from The Emily Post Institute.

Monkey See

www.monkeysee.com

Type in "etiquette" in the search engine to locate dozens of videos, ranging from basic dining etiquette to understanding how to talk to people who have disabilities.

eHow

www.ehow.com

Instructional how-to videos on almost anything—from making a healthful strawberry smoothie, to changing a tire; search on “business etiquette” to learn proper business rules, corporate protocol, customs, and manners.



Science, Technology, Engineering & Mathematics (STEM)

Engineering Your Future Welding Career

<https://www.aws.org/about/page/engineering-your-future-welding-career>

This free science education program for junior and senior high grades provides 12 student workshops emphasizing: hands-on learning, higher-order thinking skills, and practical application of information.

Kitchen Science for Kids

<https://ecommons.cornell.edu/handle/1813/9427>

A complete curriculum to download from Cornell University Extension.

Mathematics Vocabulary Wall Cards

http://www.doe.virginia.gov/instruction/mathematics/resources/vocab_cards/

From the Virginia Department of Education.

Nanooze Downloads

<http://www.nanooze.org/articles/downloads/>

A “place to hear about the latest exciting stuff in science and technology”.

PIE Network

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

“Playfully Inventing and Exploring” offers project ideas that integrate technology with art, science, music, and engineering.

Contextualized Math for the Energy Industry

<http://www.cewd.org/curriculum/contextualized-math.php>

A free curriculum to download from the Center for Energy Workforce Development.

Magnet Man

<http://www.coolmagnetman.com/magindex.htm>

Cool experiments with magnets.

Science, Optics & You

<http://micro.magnet.fsu.edu/optics/activities/students/index.html>

Activities for students to investigate light, optics, and color.

The Ruler Game

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

Online ruler and tape measure reading practice.

EPA Carbon Footprint Calculator

<http://www3.epa.gov/carbon-footprint-calculator/>

The calculator estimates your footprint in three areas: home energy, transportation and waste.

Amazing Space

<http://amazingspace.org/>

Classroom resources that promote the science and beauty of the universe based on discoveries from the Hubble Space Telescope; includes a monthly guide to the night sky and homework help.

Grow with the Flow

<https://ecommons.cornell.edu/handle/1813/9506>

A 10-session project-based curriculum from Cornell University Extension.

Materials Science Education Activities

<https://education.mrsec.wisc.edu/>

Educational modules based upon materials science and nanotechnology research done at the University of Wisconsin – Madison.

NASA For Educators

<http://www.nasa.gov/audience/foreducators/index.html>

Free teaching materials for students and teachers at multiple grade levels.

Digital Photography Tutorials

<http://www.cambridgeincolour.com/tutorials.htm>

Tutorials about cameras, imaging, color, tips and techniques, and more.

Martindale's Calculators On-Line Center

<http://www.martindalecenter.com/Calculators.html>

Online calculators and other resources relating to mathematics, agriculture, engineering, home, chemistry, food, and more.

NASA Aerodynamics Index

<http://www.grc.nasa.gov/WWW/K-12/airplane/short.html>

Links to slides, explanations, and animations of aerodynamics topics from the Glenn Research Center, including math and science fundamentals, aircraft forces, thrust, weight, the atmosphere, aircraft motion, lift and drag—even kites and baseballs.

NIGMS Publications

<https://publications.nigms.nih.gov/order/>

Free full-color publications to download from the National Institute of General Medical Sciences, such as Inside the Cell, The Chemistry of Health, The Structures of Life, and Medicines By Design.

The Center for Innovations in Engineering and Science Education

<http://ciese.org/currichome.html>

Interdisciplinary projects based on real-time internet activities can be found on this site.

Learn.Genetics

<http://learn.genetics.utah.edu/>

The University of Utah's Genetic Science Learning Center has a great website on genetics. From the basics to virtual labs, you can find a variety of great information on this site.

Space Weather Compendium

<http://lasp.colorado.edu/home/education/k-12/space-weather-compendium/>

The University of Colorado at Boulder's Laboratory for Atmospheric and Space Physics provides this site as part of their education program in space weather.

Lessons From The Field

www.nasa.gov/pdf/259240main_Space_Science_Is_for_Everyone.pdf

This is a free guide from NASA about creating and using resources that are accessible.

Explore Learning

<http://www.explorelearning.com/index.cfm>

This site includes math and science resources with gizmos.

NCTM Illuminations

<https://www.nctm.org/illuminations/>

Resources for teaching math can be found on this site.

The Fabric-Flight Connection

<https://ecommons.cornell.edu/handle/1813/30232>

A handbook detailing principles of flight, fibrous materials used in flight, the function of garments in relation to materials, resources, and activities that relate to flight and fabric; from Cornell University Extension.

Math Playground

<http://www.mathplayground.com/games.html>

Play with math and give your brain a workout on this site.

Print Free Graph Paper

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

Create and print many types of graph paper with a few clicks here.

Brain POP

www.brainpop.com

An engaging website that offers animated curriculum for science, math, engineering and technology, health, English, and social studies.

Kids' Zone

<http://nces.ed.gov/nceskids/>

Includes math quizzes, activities, and a tool for creating graphs.

Conversion Tables/Unit Conversion Online

www.convert-me.com/en/

Conversions for many common and exotic units.

CSI: Climate Status Investigations

<https://www.keystonescienceschool.org/educator/login>

Lessons on climate change, made possible by the Keystone Center, the Department of Energy, and the National Energy Technology Laboratory. Fee required.

The Khan Academy

www.khanacademy.org

Offers a multitude of video lectures in science, math, history, and finance.

Nanooze

www.nanooze.org

Learn about the latest in science and technology.

American Museum of Natural History

www.amnh.org

Programs and resources for kids and teachers on topics such as biodiversity, earth science, astronomy, anthropology, and paleontology, from the American Museum of Natural History.

Engineering Your Future

www.aws.org/foundation/engineer_your_future.html

A free set of 12 science workshops for junior and senior high school students, from the American Welding Society.

International Technology and Engineering Educators Association

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

Association website, with links to standards and other resources.

World of Materials

www.engr.sjsu.edu/WofMatE/

Exploring materials engineering.

Optics Activities

<http://micro.magnet.fsu.edu/optics/activities/students/>

Activities for students to investigate light, optics, and color.

Web Elements

www.webelements.com

This site includes one of the best periodic tables on the web.

Forging Facts

<https://www.forging.org/about>

Explanation of how forgings are produced, from the Forging Industry Association.

Museum of Science and Industry

www.msichicago.org

The museum features online science activities; apps are available.

The Lemelson Center for the Study of Invention & Innovation

<http://invention.smithsonian.org/home/>

Virtual exhibits, explorations, resources, and free downloads for teachers, students, and parents, from the Smithsonian Museum of American History.

NOAA Education

www.education.noaa.gov/teachers1.html

Teacher and student resources from the National Oceanic & Atmospheric Administration, on weather, climate change and our planet, oceans and coasts, satellites, and space.

NOAA's Ocean Explorer

<http://oceanexplorer.noaa.gov>

List of educational resources, inquiry-based learning activities, and professional development information, as well as links to spectacular videos, dynamic maps, and amazing photos.

Bridge-Related Links

www.abcdpittsburgh.org/links

Dozens of links from the Association for Bridge Construction and Design, Pittsburgh Chapter are found here.

Super Bridge

www.pbs.org/wgbh/nova/bridge/

Companion website to the NOVA program "Super Bridge," including the Build A Bridge game and links to bridge-related resources.

SpaceMath@NASA

<http://spacemath.gsfc.nasa.gov>

Free student and teacher modules to download to help students develop a deeper understanding of key mathematical concepts and their applications.

Math Resources

www.khake.com/page47.html

Links to math tutorials, formulas, calculators, and directories.

WolframAlpha

www.wolframalpha.com

This website will not only solve any mathematical problem, but it will also provide the steps describing how to get the answer.

Live Science

www.livescience.com

Science, health, and technology news and videos.

Jefferson Lab

<http://education.jlab.org>

Activities, worksheets, puzzles, games, and programs designed to increase interest in engineering and technology, especially in under-represented groups.



Transportation, Distribution & Logistics

FAA Aviation Handbooks and Manuals

http://www.faa.gov/regulations_policies/handbooks_manuals/aviation/

Aviation-related publications available for download as PDF files, from the Federal Aviation Administration.

Bureau of Transportation Statistics

<https://www.bts.gov/>

Data and statistics by mode of transportation, by region, and by subject.

America On the Move

<http://americanhistory.si.edu/onthemove/>

How transportation changed lives, culture, landscapes, and communities, an online exhibit from the National Museum of American History.

Women in Transportation

www.fhwa.dot.gov/wit/

Website about women's history in transportation, including a free guide to download.

National Coalition for Aviation Education

www.aviationeducation.org

The Coalition website, including career and teaching resources.

Bestpaperairplanes.com

www.bestpaperairplanes.com

Paper airplane designs and how to make them.

The Box

http://news.bbc.co.uk/2/hi/in_depth/business/2008/the_box/

This site tracks the year-long journey of a shipping container as it travels around the world in an effort to illustrate the impact of a global economy.

Transportation and Logistics 2030 Report

<http://www.pwc.com/gx/en/industries/transportation-logistics/tl2030.html>

A report from PriceWaterHouseCoopers.

Free Posters

Free Posters from the Resource Center for CareerTech Advancement

<https://www.okcareertech.org/educators/cimc/resources/downloads-1>

All posters are 18"X24" unless otherwise indicated. To print on smaller paper, choose the "fit" option from your print menu.

- NEW Eight-Step Problem Solving Process - These free 14" X 18" printables help lead you through the eight steps of the problem-solving process; four different styles.
- Ten Keys to a Career in Law Enforcement - Developed in cooperation with the National Partnership for Careers in Law, Public Safety, Corrections, and Security, this poster lists activities and behaviors that will keep you on track for a career in law enforcement
- Keys to Employability - List of skills and behaviors you need to succeed on the job; four different styles
- Prevent Resident Abuse and Neglect - Examples of abuse and neglect; for long-term care providers and those who train caregivers
- Fifty Ways to Lead - A free version of our popular poster, this lists 50 everyday actions that set an example
- Language Arts - Explain adjectives, adverbs, linking sentences in a paragraph, common root words, plot outline, and singular/plural subject/verb agreement
- Writing Transitions - A handy list of transition phrases to use when writing
- Build a Bridge - Encourage students to overcome obstacles; available in 18"X 24" and 8.5"X 11"
 - o Maze poster: large or small
 - o Dog poster: large or small



1. Invest in yourself—never stop learning.
2. Teach others.
3. Look for leadership skills in others.
4. Cultivate a positive environment.
5. Stick to your principles.
6. Be busy.
7. Think first.
8. Be a good follower.
9. Be confident.
10. Always be your true self.
11. Listen to the people.
12. Earn the respect and trust of others.
13. Choose good role models.
14. Recognize the accomplishments of others.
15. Let your excitement show.
16. Expect the best of others.
17. Keep your cool.
18. Be humble but proud of your achievements.
19. Be tactful.
20. Work hard at listening well.
21. Learn from others—share lessons and their mistakes.
22. Search for answers.
23. Show a sincere interest.
24. Give more credit than you take.
25. Be consistent.
26. Be a team player.
27. Act as you believe.
28. Critique constructively.
29. Take responsibility.
30. Learn from your own mistakes.
31. Show the path.
32. Hear more than you say.
33. Stay positive.
34. Give praise in public, criticism in private.
35. Ready your own opinions about people.
36. Keep a confidence.
37. Be ready with reasons.
38. Say what you mean and mean what you say.
39. Take acceptable risks.
40. Appreciate a sense of humor.
41. Be ready to compromise.
42. Eat lots of moral fiber.
43. Lead a hand.
44. Be ready to spotlight—and do it.
45. Do the work, first.
46. Show respect for different opinions.
47. Do the math on your own ideas.
48. Keep your promises.
49. Be available to change course.
50. Accept new challenges.

CIMC
CareerTech Institute of Management and Leadership

800.654.4502

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Adult Basic Education Resources

<https://www.okcareertech.org/educators/cimc/adult-basic-education-resources>

Free resources for adult basic education from a variety of sources, as well as product samples from the Curriculum and Instructional Materials Center.

Leadership

Tools for Leadership and Learning

www.managers-gestionnaires.gc.ca/tools-outils/tools_for_leadership-trousse_du_leadership-eng.php

From the National Managers' Community of Canada, this resource presents tools and practices often used by managers, including tools for shared vision and values, personal mastery, systems thinking, mental models, team learning, the art of conversation, and more.

Get Real: The Art and Power of Storytelling in Workplace Communities

www.managers-gestionnaires.gc.ca/tools-outils/get_real-pour_de_vrai-eng.php

From the National Managers' Community of Canada, this 67-page guide defines storytelling, the power of storytelling, and storytelling in the workplace.

Quotations for Leaders and Thinkers

<https://www.okcareertech.org/educators/cimc/resources/downloads-1/LeadershipGuidev2.pdf>

A free booklet of 100 quotes, from the Curriculum and Instructional Materials Center, a division of the Oklahoma Department of Career and Technology Education.

Tom Peters Re-Imagine Manifesto!

www.tompeters.com/freestuff/index.php

A series of "They say..I say..." thoughts from Tom Peters. Other thought-provoking thought resources from Tom Peters, available at the same website, include:

- The Memories That Matter
- This I Believe!
- Excellence Oath and Credo

Developing Ethical Leadership

www.corporate-ethics.org/publications/bridge-papers/

From the Business Roundtable Institute for Corporate Ethics, this paper aims to put the best thinking of academic and business leaders into the hands of practicing managers.

The Performance-Based Management Handbook

www.ora.gov/pbm/pbmhandbook/pbmhandbook.html

This free, six-volume handbook series from the U.S. Department of Energy is a primer on all aspects of performance-based management. The series titles are:

- Establishing and Maintaining a Performance-Based Management Program
- Establishing an Integrated Performance Management System
- Establishing Accountability for Performance
- Collecting Data to Assess Performance
- Analyzing, Reviewing, and Reporting Performance data
- Using Performance Information to Drive Improvement

Topics addressed throughout the series include: accountability tools and requirements, data collection methods, data analysis and presentation, benchmarking, process improvement, performance dashboards, Baldrige Award criteria, continuous improvement, and more.



Golden Flash Handbook of Leadership

www.kent.edu/csi/leadership/resources/golden-flash-handbook-of-leadership.cfm

From Kent State University, this handbook provides resources to enhance your personal and organizational leadership skills, as well as tools to assess your personal leadership development. The contents of the handbook include the following:

- Personal/Individual Leadership—Skills an individual needs to master in order to be an effective leader
 - Assertiveness • Burnout • Communication Skills • Conflict Resolution
 - Decision Making • Ethics and Ethical Decision Making • Etiquette Tips • Goal Setting - Personal • Interpersonal Skills • Leadership Styles
 - Listening Skills • Networking • Organization • Prioritizing • Problem Solving • Public Speaking • Saying No • Stress Management • Time Management • What Does It Really Mean to be a Leader? • Written Communication Skills
- Organizational Leadership—Information to help organizations function more effectively
 - Accountability • Fighting Apathy • Brainstorming • Creativity • Creativity continued • Delegation • Empowerment • Facilitation • Followership • Group Decision Making • Group Development • Group Goal Setting • Meeting Management • Motivation • Officer Transition • Recognition and Rewards • Recruitment and Retention of Members • Risk Taking • Team Building • Vision and Mission

Leadership Proficiency Levels for Competencies

www.feddesk.com

This handy guide provides rubrics for proficiency levels relating to core leadership qualifications, such as leading change, leading people, results driven, business acumen, building coalitions, and fundamental competencies.

LEADS Curriculum Notebook

<http://www.ksre.ksu.edu/bookstore/pubs/S137.pdf>

LEADS stands for Leadership Excellence and Dynamic Solutions. This 357-page curriculum from Kansas State University was designed to assist Extension educators as they implement leadership programs within their counties. Its units and modules offer a wealth of leadership training resources on topics such as:

- The Leader Within You
- Values and Ethics
- Strengths and Styles
- Building Trust
- Managing Conflict in Groups
- Dealing With Change

Coaching Practices for Managers

www.managers-gestionnaires.gc.ca/tools-outils/coaching_practices-pratiques_de_coaching-eng.php

From the National Managers' Community of Canada, this resource seeks to "evoke excellence in others" by developing and applying these eight practices:

- Working with Complaints
- Listening for Commitment in Complaints
- Challenging Generalizations
- Working with Assessments
- What's Missing?
- Working with Moods
- Three Types of Conversation
- Working with Recurrent Problems

Compendium of Knowledge Solutions

www.adb.org/publications/compendium-knowledge-solutions

This compendium from the Asian Development Bank profiles dozens of tools to build competencies in strategy development, management techniques, collaboration, knowledge sharing and learning, and knowledge capture and storage. Topics include:

- Social network analysis
- Building a learning organization
- Focusing on project metrics
- Growing managers, not bosses
- A primer on talent management
- Bridging organizational silos
- Exercising servant leadership
- Managing virtual teams
- Wearing six thinking hats
- Building networks of practice
- Drawing learning charters
- Embracing failure
- Storytelling
- Harvesting knowledge

Next Generation Organizations: 9 Key Traits

www.compasspoint.org/nextgenorgs

In this concise guide, CompassPoint Nonprofit Services offers a list of characteristics of a next generation organization and draws on specific examples from two nonprofits to demonstrate how certain traits are operationalized.

Performance Accountability: The Five Building Blocks and Six Essential Practices

www.businessofgovernment.org/report/performance-accountability-five-building-blocks-and-six-essential-practices

In this report from the IBM Center for The Business of Government, the author puts forward five building blocks of performance accountability that will allow public organizations and their managers to achieve accountability and performance gains.

100 Women Leaders in STEM

www.stemconnector.org/100women

A free guide (click on the book cover image) that profiles 100 women leaders in STEM

Strategic Planning Toolkit

www.ovcttac.gov/views/resources/dspStrategicPlan.cfm

The Strategic Planning Toolkit is designed to function as a guide throughout the strategic planning process. The Toolkit offers guidelines you can follow and tools and resources for you to draw on at every step. It is organized to help you both learn about the planning process and use the process. The six sections of the Toolkit correspond to a six-step strategic planning process.

77 Ways to Motivate Your Workers

www.ianrpubs.unl.edu/epublic/live/g1440/build/g1440.pdf

From the University of Nebraska –Lincoln Extension, this guide offers practical suggestions for motivating others based on five sources of motivation: fun, rewards, reputation, challenge, and purpose.

Learning Today, Leading Tomorrow Series

<http://pubs.cas.psu.edu/Publications.asp>

A leadership curriculum from PennState College of Agricultural Sciences (click on the “Community Affairs, Local Government, and Taxation” subject area) designed to help individuals develop and strengthen their personal leadership skills:

- Unit I: Personal Leadership Skills
- Unit II: Interpersonal Leadership Skills
- Unit III: Group/Organizational Leadership Skills
- Unit IV: Community/Public Policy Leadership Skills

Engaging a Multi-Generational Workforce: Practical Advice for Government Managers

www.businessofgovernment.org/report/engaging-multi-generational-workforce-practical-advice-government-managers

This report from the IBM Center for The Business of Government explains six trends affecting the multi-generational workforce and offers practical advice, in the form of tips, for managing such a workforce.

Managing Cultural Differences

<http://regulatorsforaccess.ca/docs/ManagingCulturalDifferencesEnglish.pdf>

A handy, 28-page guide from the Government of Ontario (Canada) that discusses what culture is, cross-cultural communication, and cultural values in the workplace; offers plenty of guidance about what you can do in specific settings

How to Succeed in Engineering

www.eng.uci.edu/events/2007/12/how-be-successful-engineer-featuring-dr-robert-colwell

This presentation by Dr. Robert Colwell draws upon the speaker's three decades of design and management experience to explain how to succeed in engineering and as a leader. It is easy to see how his advice relates to careers in any field.

Oklahoma CareerTech Delivers blog

<https://okcareertechdelivers.com/>

OK CareerTech Delivers is devoted to excellence in education, instruction, and in the development of a world-class workforce.



Soft Skills

Office of Disability Employment Policy, U.S. Department of Labor

www.dol.gov/odep/topics/youth/softskills/

The ODEP office provides a free, 142-page set of activities to download titled, Skills to Pay the Bills: Mastering Soft Skills for Workplace Success. Activities are categorized as Communication, Teamwork, Enthusiasm & Attitude, Networking, Problem Solving & Critical Thinking, and Professionalism.

Federal Plain Language Guide

<https://www.plainlanguage.gov/guidelines/>

This free guide to writing clearly is organized into the following topics: thinking about your audience, organizing, writing, writing for the web, and testing (testing your writing, such as for usability).

Global Competence for Educators

<https://www.peacecorps.gov/educators/resources/global-competence-training-educators/>

Webinar series to assist educators in using the Peace Corps global education programs to help learners become global citizens.

Disability Etiquette

<http://www.unitedspinal.org/disability-etiquette/>

The United Spinal Association offers this free booklet, showing the incorrect and correct ways of interacting with people with disabilities. The tips are presented in the form of illustrations.

Writing Ethically

https://ori.hhs.gov/images/ddblock/8_Ethical_Write_scalable.pdf

A free infographic from the U.S. Department of Health & Human Services.



Conflict Education Modules

<http://learningstore.uwex.edu/Understanding-Conflict-color-P1384.aspx>

The University of Wisconsin-Extension produced a set of conflict education modules to help others develop comfort with conflict and skill in managing it.

The modules include:

- Non-verbal Communication
- Communication—Using “I” Statements
- Listening Skills and Conflict
- Conflict Styles
- A Model for Improvement: Assumptions and Beliefs
- The Ladder of Inference
- How Perceptions Affect a Conflict Situation
- Telling the Third Story
- Position versus Interests
- A Framework for Negotiation

Mind Tools

www.mindtools.com

Mind Tools offers a toolkit of articles about management, career and thinking skills. The toolkit covers skills such as leadership, team management, problem solving, decision making, stress management, communication, and more.

(Many articles in the toolkit are free, others require membership.)

From Soft Skills to Hard Data

<http://forumfyi.org/content/soft-skills-hard-data->

This document profiles eight instruments for measuring youth progress in four soft skills areas: communication, relationships and collaboration, critical thinking and decision-making, and initiative and self-direction.

Idea Book: Integrating Work Skills and Basic Skills

<http://resources.clee.utk.edu/print/ideabook00.pdf>

This 207-page resource, from the Center for Literacy, Education & Employment at the University of Tennessee-Knoxville, is a collection of lesson plans from adult education instructors who wanted to create learning activities that integrate work preparation and basic skills. A total of 59 lessons are grouped by skill area: communication skills, decision-making skills, interpersonal skills, and lifelong learning skills.

What To Know When You Eat in a Restaurant

<http://vecova.ca/wp-content/uploads/2012/11/What-to-Know-When-You-Eat-in-a-Restaurant.pdf>

This is a concise, easy-to-read booklet about restaurant etiquette.

OPM Leadership Competency Levels

www.opm.gov/policy-data-oversight/assessment-and-selection/competencies/proficiency-levels-for-leadership-competencies.pdf

The federal Office of Personnel Management compiled this set of leadership competencies, each competency being described in terms of five levels from “awareness” to “expert” and with examples of each level. Core qualifications for employment, with the competencies within each qualification, are as follows:

Leading Change • Creativity and Innovation • External Awareness • Flexibility • Resilience • Strategic Thinking • Vision Leading People • Conflict Management • Leveraging Diversity • Developing Others • Team Building Results Driven • Accountability • Customer Service • Decisiveness • Entrepreneurship • Problem Solving • Technical Credibility Business Acumen • Financial Management • Human Capital Management • Technology Management Building Coalitions • Partnering • Political Savvy • Influencing/Negotiating Fundamental Competencies • Interpersonal Skills • Oral Communication • Integrity/Honesty • Written Communication • Continual Learning • Public Service Motivation

GroupWorks Series

<http://extensionpubs.umext.maine.edu/> "Click on the Business & Community category."

These 4-page bulletins from the University of Maine Cooperative Extension cover all aspects of working in/with groups. Individual bulletin titles include the following:

- Getting Things Done in Groups
- Facilitation: What Is It?
- The Art of Great Meetings
- Effective Communication
- Appreciating Differences
- Thinking Together: Making Better Decisions in Groups
- Working With Group Conflict

Business Etiquette: New Rules for a Digital Age

<https://www.roberthalf.com/workplace-research/business-etiquette>

A free guide to download from Robert Half.

Responding to Distressed People

<https://www.ag.ndsu.edu/publications/kids-family/responding-to-distressed-people/fs1805.pdf>

A free booklet to download from North Dakota State University Extension Service.

EIA Writing Style Guide

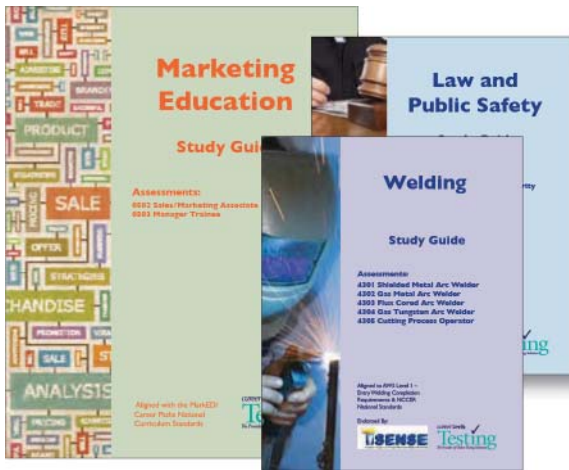
<https://www.eia.gov/about/eiawritingstyleguide.pdf>

A guide to writing more clearly and concisely, from the Energy Information Administration.



Your Websites

Online Assessments with Study Guides



The CareerTech Testing Center offers dozens of online occupational and course assessments for career and technology education! A study guide accompanies each assessment to help students prepare for the assessment. Each study guide includes:

- A test plan that outlines the assessment in terms of: the number of multiple-choice test items on the assessment, the topics covered, and the percentage of questions on each topic
- General information about the assessment
- Sample questions
- Test-taking strategies

Contact the CareerTech Testing Center to find out more.

405.743.5412

Oklahoma: www.okcttc.com

Outside Oklahoma: www.careertechtesting.com



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RCCTA Resource Center for
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