**Web Resources for CTE Curriculum Integration**

**FFA and Supervised Agricultural Experience**

NYS FFA<http://www.nysffa.org/>

National FFA <https://www.ffa.org/>

[The Agricultural Experience Tracker (AET) https://www.theaet.org/](https://www.theaet.org/)

SAE for All Teacher’s Guide, Student Guide <https://ffa.app.box.com/s/exollg1x7q2lntun3su2mdufw07wiklf>

<https://thecouncil.ffa.org/sae/>

Texas WBL Docs <http://cte.tamucc.edu/wbl-docs/wbl-checklists-templates/>

YW Curriculum: H&W in Agriculture <https://osha.washington.edu/pages/yw-curriculum-hs-agriculture>

National Work Readiness Credential (http://www.workreadiness.com);

▪ SkillsUSA Work Force Ready Employability Assessment (http://www.workforcereadysystem.org);

▪ National Career Readiness Certificate WorkKeys (http://www.act.org/certificate);

▪ Comprehensive Adult Student Assessment Systems Workforce Skills Certification System (https://www.casas.org)

▪ Precision Exams 21st Century Success Skills (http://www.precisionexams.com/newyork/exams.html)

(Source: NYSED)

**Our Textbooks online**

<https://www.g-wonlinetextbooks.com/>

**Curriculum Resources**

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

Curriki <https://www.curriki.org/tag/open-educational-resources/>

NAAE Communities of Practice <https://communities.naae.org/welcome>

Discovering Farmland <http://www.discoveringfarmland.com/lessons>

Agriculture in the Classroom <https://www.agclassroom.org/>

AgCultures <https://agcultures.com>

World Food Programme (fact sheets) <https://www.wfp.org/policy-resources/corporate?type=55&tid_2=All&tid_4=All>

The Food Project <http://thefoodproject.org/food-project-toolbox>

From the Ground Up KBTX-TV Video Series <https://www.kbtx.com/content/news/487406891.html>

Food & Ag Organization of the United Nations <http://www.fao.org/home/en/>

World Health Organization <http://www.who.int/>

Growing a Nation <https://www.agclassroom.org/gan/index.htm>

4-H Virtual Farm (middle school) <https://www.sites.ext.vt.edu/virtualfarm/main.html>

Grow Next Gen <https://grownextgen.org/curriculum>

AgMRC Special Projects Curriculum <https://www.agmrc.org/curriculum>

Free Online Textbooks <https://openstax.org/>

Free Lessons <https://sharemylesson.com>

Free Lessons <https://www.skillscommon.org>

Dragonfly TV (science for kids) <https://www.tpt.org/dragonfly-tv/>

hhmi Biointeractive <https://www.hhmi.org/biointeractive/about-biointeractive>

Illinois Open Resources <http://ioer.ilsharedlearning.org/Search>

Council for Agricultural Science & Technology <http://www.cast-science.org/education/>

BioEd Online <http://www.bioedonline.org/>

Biology Corner.com <https://www.biologycorner.com/worksheets/>

Sumanas Inc Animations <http://www.sumanasinc.com/webcontent/animation.html>

Science Net Links <http://sciencenetlinks.com/lessons/>

California Academy of Science <https://www.calacademy.org/educators/lesson-plans>

List of free worksheet generator sites <http://www.teach-nology.com/web_tools/work_sheets/>

Cornell Institute for Biology Teachers <http://blogs.cornell.edu/cibt/labs-activities/>

Purdue Resources for K-12 <https://ag.purdue.edu/PK12/Documents/Resources_for_PK-12_Educators.pdf>

Coursera <https://www.coursera.org/>

edX <https://www.edx.org/>

Florida Free Resources cpalms.org

Open Sci Ed <https://www.openscied.org/>

UHub Biology <https://docs.google.com/document/d/1IhxU-EJN0egytEWyEUhiP5iKEpZKqV45zeGL-jI-3bQ/edit>

**Aligning Standards**

Colorado website for choosing standards

<https://coctestandards.cccs.edu/WebFormFLbyUI.aspx>

**Animal Science**

**Misc AnSci**

Animal Ag Alliance <https://resources.animalagalliance.org/>

NY Animal Agriculture Coalition [www.nyanimalag.org](http://www.nyanimalag.org)

Breeds <http://afs.okstate.edu/breeds/>

Animal Careers <http://animalcareers.cornell.edu/>

Animal Handling <https://www.animalcaretraining.org/>

Animal Smart.org

<http://animalsmart.org/animal-science/resources-for-educators/animal-frontiers-in-the-classroom/animal-science-teaching-plan>

**Beef Production and Beef/ Meats**

Beef It’s What’s For Dinner <https://www.beefitswhatsfordinner.com/>

Beef 2 Live <http://beef2live.com/>

Beef Life Cycle <http://beef.org/beef-lifecycle/>

Aggie Meat ( Meat Cuts ID) <https://aggiemeat.tamu.edu/meat-identification-pictures/>

**Livestock Judging**

Livestock Judging.com <http://www.livestockjudging.com/classes.aspx?free=on>

**Dairy**

Holstein Foundation Workbooks <http://www.holsteinfoundation.org/education/workbooks.html>

PA Center for Dairy Excellence <http://centerfordairyexcellence.org/students-educators/>

Discover Dairy <https://www.discoverdairy.com/>

Dairy Leaders of Tomorrow <https://www.dairyleadersoftomorrow.com/>

Dairy Safety Videos <http://csu-cvmbs.colostate.edu/academics/erhs/agricultural-health-and-safety/Pages/dairy-videos.aspx>

Hoard’s Dairyman Youth (judging, scholarships, education)

<https://hoards.com/flex-280-Youth-Resources.html>

FARM Dairy Resources <https://nationaldairyfarm.com/producer-resources/resource-library/>

Bovine Vet online [www.bovinevetonline.com/resources](http://www.bovinevetonline.com/resources)

**Genetics**

[**https://ge.unl.edu/journey-of-a-gene/**](https://ge.unl.edu/journey-of-a-gene/)

Pigeon Breeding <https://learn.genetics.utah.edu/content/pigeons/>

Genomics <https://www.illumina.com/company/about-us/corporate-citizenship/stem-education.html>

Genomics <https://www.dnadecoded.org/educator-resources.html>

**Natural Selection Simulation** [**https://phet.colorado.edu/en/simulation/natural-selection**](https://phet.colorado.edu/en/simulation/natural-selection)

**Horse**

Colostate.edu <http://csu-cvmbs.colostate.edu/vth/equine/Pages/equine-case-studies-news.aspx>

Online Horse Judging <https://animalscience.tamu.edu/livestock-species/equine/online-judging/>

The Eloquent Equine (Downloadable Infographics) <http://theeloquentequine.com/hoofnotes/>

American Quarter Horse Assoc. <https://www.aqha.com/youth/pages/education/horse-judging/>

The Horse: Your Guide to Equine Health Care <https://thehorse.com/>

Sam Houston State U <https://www.shsu.edu/academics/agricultural-sciences-and-engineering-technology/equine-curriculum/index.html>

**Sheep**

American Sheep Industry Association <https://www.sheepusa.org/>

American Wool Council <https://www.americanwool.org/>

**Goat**

American Goat Federation <https://americangoatfederation.org/>

**Swine**

Safe Pig Handling (online course) <https://lms.pork.org/Tools/View/safe-pig-handling>

National Pork Producers Council <http://nppc.org/>

**Poultry**

United Egg Producers <https://unitedegg.com/>

The National Chicken Council <https://www.nationalchickencouncil.org/>

**Companion Animals**

Caring for Small An <http://csu-cvmbs.colostate.edu/vth/general-care/Pages/small-animal.aspx>

Genetics Lesson w Dog Breeds

<http://www.bioedonline.org/lessons-and-more/lessons-by-topic/genetics-and-inheritance/dogsa-model-for-modern-genetics/>

Pet MD <https://www.petmd.com/>

American Kennel Club <https://www.akc.org/dog-breeds/>

Cat Fanciers’ Association <http://cfa.org/>

American Assoc. of Feline Practitioners <https://catfriendly.com/>

International Cat Care <https://icatcare.org/advice>

AAFCO (Pet Food Regs) <https://petfood.aafco.org/>

Great Pets <https://greatpets.com/great-pets-video/>

Labeling a Dog Skeleton <https://ltsa.sheridancollege.ca/apps/vettech/dog_skeleton.html>

Canine Anatomy interactive diagrams <https://www.imaios.com/en/vet-Anatomy/Dog/Dog-General-anatomy-Illustrations>

**Vet Sci**

American Veterinary Medical Assoc. <https://www.avma.org/KB/K12/Pages/AVMA-educational-resources.aspx>

APHIS [www.aphis.usda.gov/pests-and-diseases](http://links.govdelivery.com/track?type=click&enid=ZWFzPTEmbWFpbGluZ2lkPTIwMTkwMzIyLjM1NzQ0MDEmbWVzc2FnZWlkPU1EQi1QUkQtQlVMLTIwMTkwMzIyLjM1NzQ0MDEmZGF0YWJhc2VpZD0xMDAxJnNlcmlhbD0xODA3MjYxNyZlbWFpbGlkPWNnYWxsYWdoZXJAd2F0ZXJ2aWxsZWNzZC5vcmcmdXNlcmlkPWNnYWxsYWdoZXJAd2F0ZXJ2aWxsZWNzZC5vcmcmZmw9JmV4dHJhPU11bHRpdmFyaWF0ZUlkPSYmJg==&&&103&&&https://www.aphis.usda.gov/pests-and-diseases)

CPalms Pathogens & Disease <https://www.cpalms.org/Public/PreviewResourceStudentTutorial/Preview/166488>

Immunology Virtual Lab <https://www.biointeractive.org/classroom-resources/immunology-virtual-lab>

**Biotechnology**

Alliance for Science [www.allianceforscience.cornell.edu/videos](http://www.allianceforscience.cornell.edu/videos)

Genetic Literacy Project <https://geneticliteracyproject.org/>

Virtual Genetics Labs <https://learn.genetics.utah.edu/content/labs/>

Cells Virtual Activities <https://learn.genetics.utah.edu/content/cells/>

**Business, Finance & Marketing**

Next Generation Personal Finance <https://www.ngpf.org/>

<https://docs.google.com/spreadsheets/d/1FyqyBihKBV1JDmivHVd5iD1rrJbQZG3RHMFrmKTFNFc/edit#gid=2094458092>

Ever fi <https://everfi.com/offerings/financial-education/>

Econ Ed Link <https://www.econedlink.org/>

Council for Economic Ed [www.councilforeconed.org](http://www.councilforeconed.org)

Youth Entrepreneurs <http://youthentrepreneurs.org/>

My Money <https://www.mymoney.gov/Pages/default.aspx>

Entrepreneurship <http://entrepecon.councilforeconed.org/lessons.php?lid=68390>

Decisions & Dollars (entire course) <https://ffa.app.box.com/s/fihrv0zii7k0kw6pv62couvnqzfc0cpa>

Investor.gov <https://www.investor.gov/additional-resources/specialized-resources/youth/teachers-classroom-resources>

Money Smart <https://moneysmartcbi.fdic.gov/student/index.php>

Understanding Taxes <https://apps.irs.gov/app/understandingTaxes/index.jsp>

STAX (investing game) <https://buildyourstax.com/?utm_source=Next+Gen+Personal+Finance&utm_campaign=4b562e0721-EMAIL_CAMPAIGN_2017_09_08_COPY_01&utm_medium=email&utm_term=0_3711609f5e-4b562e0721-236771917>

Taxes (IRS) <https://apps.irs.gov/app/understandingTaxes/teacher/downloads.jsp>

Money Mgt International (US) <https://www.moneymanagement.org/resources>

Utah’s Finance in the Classroom <https://financeintheclassroom.org/?fbclid=IwAR1dWAMI5BJQNDFb-oVaTD4LMSP1dY17C1ac6lnoL-ZFBtznjkW4uaulAoA>

NYSED Curriculum Framework <http://www.p12.nysed.gov/cte/ctepolicy/documents/CFM.2018initialRelease508.pdf>

Federal Trade Commission videos <https://www.consumer.ftc.gov/media/>

Pathway to Financial Success <https://www.pathwayinschools.com/educators/high-school/>

Payroll Calculator <https://www.smartaboutmoney.org/Tools/Calculators/Payroll-Adjustments-and-Take-Home-Pay>

Tax Withholding Calculator <https://www.irs.gov/individuals/tax-withholding-estimator>

**Economics**

Foundation for Teaching Economics <https://www.fte.org/teachers/teacher-resources>

Econ Help <https://www.economicshelp.org>

Izzit.org <https://www.izzit.org>

Heritage Index for Economic Freedom <https://www.heritage.org/index>

**Career Exploration & Planning**

Dictionary of Occupations <https://www.occupationalinfo.org>

Good Jobs Data/ Georgetown U [www.goodjobsdata.org](http://www.goodjobsdata.org)

Working Nation <https://workingnation.com>

Center on Education & the Workforce <https://cew.georgetown.edu/cew-reports/valueofcollegemajors/#explore-data>

Ag Explorer [www.agexplorer.com](http://www.agexplorer.com)

USDA Ag Careers <https://www.agriculture.purdue.edu/USDA/careers/index.html>

O\*Net Online [www.onetonline.org](http://www.onetonline.org)

Big Future/ College Board <https://bigfuture.collegeboard.org/>

Connect Ed <https://connectednational.org/watch/day-at-work-videos/>

My Future, My Way (booklet) <https://financialaidtoolkit.ed.gov/tk/announcement-detail.jsp?id=my-future-my-way-input>

<https://www.npr.org/sections/money/2015/09/30/444446022/what-youll-actually-pay-at-1-550-colleges>

College Scorecard <https://collegescorecard.ed.gov/>

<http://www.educationplanner.org/students/career-planning/find-careers/career-clusters.shtml>

Career One Stop <https://www.careeronestop.org>

Ag Careers Education Profiles <https://www.agcareers.com/ag-education/education-profiles.cfm>

Ag Careers.com <https://www.agcareers.com/career-profiles/ag-careers-e-book/#38>

Animal Careers <http://animalcareers.cornell.edu/>

Grow Next Gen Ag Careers <https://grownextgen.org/careers>

IREC Solar Career Map (youtube videos series)

Girls Communicating Career Connections (Middle School) <http://gc3.edc.org/index.html>

Manufacturing [https://www.manufactureyourfuture.com](https://www.manufactureyourfuture.com/)

Video Series /Job Genius <https://www.youtube.com/watch?v=rmOnCwxbj9s&index=1&list=PLOdeaKKa_ZAiOP0Wf4pcw2-BYoI6OmfFH>

A Day in the Life Video Series

<https://connectedstudios.org/url-zuF2ha7ENUkhXWnhzOFCGrTnKEgLz4aEQbQNfEcJLzU>

**Work Values Assessment**

<https://www.vawizard.org/wizard/assessment-combined>

**Career Interests**

<https://career.missouri.edu/career-interest-game/>

**Personality Test**  <https://www.16personalities.com/>

**SAE**

[**https://thecouncil.ffa.org/sae/**](https://thecouncil.ffa.org/sae/)

SAE Student Independent Learning Guide <https://thecouncil.ffa.org/rise/#/?_k=ho7no7>

**Career Prep Curriculum**

Center for Human Services Education <https://www.humanservicesed.org/Default.aspx?RD=4832>

Facts About Food Interactive <https://www.econessentialsinschool.com/sites/all/themes/econ_ui/assets/modules/food/#slide1-1>

**Agronomy, Crops & Soil Science**

**Agronomy**

Weed ID Links <http://wssa.net/wssa/weed/weed-identification/weed-id-pages/>

Seeds Video <https://www.seeds.iastate.edu/seeds-diversity-wonder>

**Corn**

National Corn Growers Association <http://www.ncga.com/home>

World of Corn <http://www.worldofcorn.com/#/>

**Gardening**

Kids Gardening.org <https://kidsgardening.org/>

**Wheat**

National Association of Wheat Growers <https://www.wheatworld.org/wheat-101/>

**Turf Mgt Course** <https://ffa.app.box.com/s/a8ewbjf5l8bkgq4e9hehbb4hmyve9ety>

**Soil Science**

Soil Science Society of America <https://www.soils4teachers.org/>

Science of Soil <http://www.thescienceofsoil.com/>

NRCS Soils Education <https://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/edu/7thru12/>

Dr. Dirt <https://www.doctordirt.org/>

Nutrients for Life <https://nutrientsforlife.org/>

Soil Health Inst. <https://soilhealthinstitute.org/resources/soil-health-educational-resources/>

Purdue Soil Health Videos <https://www.asec.purdue.edu/soilhealth/videos.html>

Nutrient Stewardship <https://www.nutrientstewardship.com/training/>

Dig into Mining <https://www.digintomining.com/>

**Foods & Nutrition**

Free Stock Photos <https://snaped.fns.usda.gov/photo-gallery?utm_source=govdelivery&utm_medium=email&utm_campaign=NewSitePhotoGalleryText>

[ww.growtolearn.org](http://www.growtolearn.org) This site had links to many of the following sites.

[www.usda.gov](http://www.usda.gov) Dig In Lessons (5th,6th grades), MY Plate lessons

[www.agclassroom.org/ny](http://www.agclassroom.org/ny) NY Ag In the Classroom

Food Span (John Hopkins) <http://www.foodspanlearning.org/lesson-plans>

Food Education National Geographic <https://www.nationalgeographic.org/education/food-education/>

[www.edibleschoolyard.org](http://www.edibleschoolyard.org)

[www.dairyspot.com](http://www.dairyspot.com)  Look at Fuel up to Play 60, health & wellness etc

[www.foodday.org](http://www.foodday.org) 5 day-Food Day Curriculum  (National Food Day 10/24)

[www.nourishlife.org](http://www.nourishlife.org)

[www.foodinsight.org](http://www.foodinsight.org)

[www.bestfoodfacts.org](http://www.bestfoodfacts.org)

[www.nationaldairycouncil.org](http://www.nationaldairycouncil.org)

U Of Guelph Dairy Science & Technology ebook <https://www.uoguelph.ca/foodscience/book-page/dairy-science-and-technology-ebook>

Girls Communicating Career Connections “Feed Me” <http://gc3.edc.org/feedme.html>

Food Safety <https://www.foodsafety.gov>

California Ag in the Classroom <http://learnaboutag.org/resources/learn_stem.cfm>

Edx (open courses) <https://www.edx.org/course/subject/food-nutrition>

Before the Plate <https://www.beforetheplate.com/>

**Geography & World Statistics**

Geographic.org <https://geographic.org/>

Country Rankings <https://photius.com/rankings/index.html>

World Atlas <https://www.worldatlas.com/>

Peace Corps <https://www.peacecorps.gov/educators/>

**Leadership/ Civics**

Habitudes <https://growingleaders.com/habitudes/habitudes-for-middle-and-high-school/>

Food Project Team Bldg <http://thefoodproject.org/games-pdf>

Speak the Truth <https://www.speaktruthtopowerinschool.com/speak-truth-power>

iCivics <https://www.icivics.org/>

Interactive Parliamentary Procedures <https://openprairie.sdstate.edu/tll_cr/1/>

Teach the Vote [www.tolerance.org/voting](http://www.tolerance.org/voting)

Facing History <https://www.facinghistory.org/topics/democracy-civic-engagement>

C-Span Classroom <https://www.c-span.org/classroom/>

Global Oneness [https://www.globalonenessproject.org](https://www.globalonenessproject.org/)

Bill of Rights’ Institute <https://resources.billofrightsinstitute.org/>

Teaching Tolerance <https://www.tolerance.org/classroom-resources/lessons>

Center for Civic Education <https://www.civiced.org/>

CSPAN 2020 Election <https://sites.google.com/view/c-span-classroom-campaign-2020/home?authuser=0>

**Plant Science**

Safety First Training Texas A&M

<https://aggie-horticulture.tamu.edu/ornamental/safety-publications/safety-first-training-program/>

The Great Plant Escape ( middle school) <http://extension.illinois.edu/gpe/index.cfm>

Next Gen Lesson Plans <https://www.ngsslifescience.com/science.php/science/biology_lesson_plans_plant_science>

Minnesota Nursery & Landscape Assoc. – High School Horticulture Curriculum

<https://www.mnla.biz/page/hscurriculum>

Science & Plants for Schools (UK) <http://www.saps.org.uk/secondary/teaching-resources/1299-biology-animations-plant-transport-photosynthesis-and-cell-growth>

Science Sauce Online <http://sciencesauceonline.com/bio/photosynthesis/>

**Natural Resources**

Environmental Science Course

<https://ffa.app.box.com/s/gwqnfkllk9x2v4exxfnxdirievrvvm9q>

Environmental Science <https://www.environmentalscience.org>

NYS DEC Teacher Info <https://www.dec.ny.gov/education/66.html>

NYS DEC Invasive Species Lessons <http://www.dec.ny.gov/animals/114620.html>

Environmental Protection Agency <https://www.epa.gov/environmental-topics>

National Park Service <https://www.nps.gov/index.htm>

Aurum Science [https://www.aurumscience.com/environmental](https://www.aurumscience.com/environmental/1_introduction/lorax.html)

US Geological Survey <https://www.usgs.gov/science/science-explorer>

Dig into Mining <https://www.digintomining.com/sites/default/files/aim-to-reclaim/#/welcome>

EPA <https://www.epa.gov/students/lesson-plans-teacher-guides-and-online-environmental-resources-educators>

Conservation Connect <http://conservation-connect.com/>

National Academies of Sciences, Engineering & Medicine <http://dels.nas.edu/global/About-Us>

Craig Kohn’s Nat Resources course <http://wuhsag.weebly.com/natural-resources.html>

Eco Literacy [https://www.ecoliteracy.org](https://www.ecoliteracy.org/)

Environmental Education for Kids (WI) <http://eekwi.org/> (Available in Spanish)

Population Education <https://www.worldof7billion.org/teacher-resources>

**Forestry**

Project Learning Tree <https://www.plt.org/>

Inside Oregon’s Forests <https://www.ofri.com/sites/default/files/2017-05/OFRI_HSCurriculum-DIGITAL%20KS%20Copy.pdf>

Tree Ring Simulation <https://scied.ucar.edu/tree-ring-interactive>

International Society of Wood Science & Technology <http://www.swst.org/wp/education/teaching-units/>

USDA Forest Products Lab <https://www.fpl.fs.fed.us/>

**Water**

Watershed Info <https://water.usgs.gov/osw/streamstats/>

EPA How’s My Waterway? <https://watersgeo.epa.gov/mywaterway/>

The Water Project <https://thewaterproject.org/community/student-resources/water-related-education-materials-for-high-school/>

How Stuff Works Watershed <https://science.howstuffworks.com/environmental/conservation/issues/watershed.htm>

EPA Wetlands <https://www.epa.gov/wetlands>

Water Education <https://www.watereducation.org/>

Streamer Web Page <https://txpub.usgs.gov/DSS/streamer/web/>

Cary Institute <https://www.caryinstitute.org/>

Drought Monitor <https://droughtmonitor.unl.edu/>

**Fishing**

Take Me Fishing <https://www.takemefishing.org>

Trout in the Classroom <http://outdoornebraska.gov/troutintheclassroom/>

National Park Service -Fishing https://www.nps.gov/subjects/fishing/index.htm

**Wildlife**

National Wild Turkey Foundation <http://www.nwtf.org/hunt/wild-turkey-basics>

Cornell Ornithology Lab <http://www.birds.cornell.edu/Page.aspx?pid=1478>

What Bird <https://www.whatbird.com/>

Pa Wildlife LP <https://ecosystems.psu.edu/youth/sftrc/lesson-plans/wildlife>

Deer & Forests <http://deerandforests.org/>

Penn State White-Tailed Deer Lesson Plans <https://ecosystems.psu.edu/youth/sftrc/deer>

Raptor Lab <https://raptorlab.umn.edu/vetintraining>

Animal Tracks Animal Tracks <http://www.naturetracking.com/>

**Climate Change**

NASA: Climate Change [h](https://climate.nasa.gov/)<https://www.climate.gov/news-features/decision-makers-toolbox/tracking-carbon-dioxide-across-globe>[ttps://climate.nasa.gov/](https://climate.nasa.gov/)

Our Climate Our Future <https://ourclimateourfuture.org/resources/>

Carbon Dioxide Tracker

<https://www.climate.gov/news-features/decision-makers-toolbox/tracking-carbon-dioxide-across-globe>

Global Change .gov <https://www.globalchange.gov/climate-change>

Climate Central <https://www.climatecentral.org/>

NOAA <https://www.noaa.gov/education/resource-collections/climate-education-resources/climate-change-impacts>

Australian Govt <http://www.environment.gov.au/climate-change>

# Documentary 𝐁ill 𝐍yes 𝐆lobal 𝐌eltdown 𝐂limate 𝐂hange 𝐃ocumentary 𝐍ational 𝐆eographic 𝐄xplorer

<https://www.youtube.com/watch?v=l_6Dv5NSt2M>

Free Online Climate Change Course <http://www.climatechangecourse.org/>

Project Look Smart- Climate Change Kit <https://www.projectlooksharp.org/front_end.php?kit_id=19>

**Energy Systems**

Solutions Project <http://www.thesolutionsproject.org/>

Nova <https://www.pbs.org/wgbh/nova/labs/about-energy-lab/educator-guide/>

California Academy of Science <https://www.calacademy.org/educators/lesson-plans>

California Ag in Classroom <http://learnaboutag.org/resources/learn_stem.cfm>

Natural Gas <https://safeandsmart.org/middle-school-students/>

Energy Careers <https://safeandsmart.org/high-school-students/>

Save On Energy <https://www.saveonenergy.com/learning-center/>

Energy Kids <https://www.eia.gov/kids/>

Wind Energy Curriculum <https://www.kidwind.org/teach>

BioEnergy Farm Game <https://www.glbrc.org/outreach/educational-materials/bioenergy-farm-game>

Fields of Fuel <http://fieldsoffuel.org/>

**Power & Tech Systems**

California Ag Mechanics CDE <http://ag.csuchico.edu/agMech/>

California Ag Mechanics <http://www.agedweb.org/agmechanics/projects/index.htm>

**Safety**

NY Center for Ag Medicine & Health <http://www.nycamh.org/>

National Institute for Occupation Safety and Health <https://www.cdc.gov/niosh/topics/aginjury/default.html>

National Ag Safety Database <http://nasdonline.org/>

Ag Ed Web <http://www.agedweb.org/AgMechanics/GeneralShopSafety.htm>

Youth in Agriculture <https://www.osha.gov/SLTC/youth/agriculture/index.html>

Penn State Tractor Safety <https://extension.psu.edu/national-safe-tractor-and-machinery-operation-program>

### Kansas Hazardous Occupation Training Resources for Instructors <https://www.bae.ksu.edu/extension/fs/khot/resources/index.html>

ITEEA <https://www.iteea.org/Resources/Safety/Additional_Resources.htm>

NIOSH Youth @ Work Talking Safety Curriculum <https://www.cdc.gov/niosh/talkingsafety/states/ny/2014-109/default.html>

Virginia Machine Safety Tests <https://www.alce.vt.edu/signature-programs/team-ag-ed/teacher-resources.html>

Upper Midwest Ag Health & Safety

[http://umash.umn.edu/aged/#](http://umash.umn.edu/aged/)

Safety in Agriculture for Youth (SAY) <https://ag-safety.extension.org/safety-in-agriculture-for-youth/>

Wood Shop Safety <https://osha.washington.edu/pages/yw-curriculum-wood-shop-welcome-home>

**Engineering**

Teach Engineering <https://www.teachengineering.org/>

International Technology and Engineering Educators Assoc. <https://www.iteea.org>

Hacking STEM Lessons <https://www.microsoft.com/en-us/education/education-workshop/default.aspx>

<https://www.navystemfortheclassroom.com/sites/navystemfortheclassroom.com/files/stem-challenges/>

Cyber Innovation Center <https://nicerc.org/>

**Small Engines**

Repair Clinic <https://www.repairclinic.com/Content-Library/a22b303/Briggs-Stratton-Small-Engine-Parts>

**Renewable Energy**

Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

<http://www.eere.energy.gov/>

American Solar Energy Society <https://www.ases.org/>

Solar Energy Industries Association Fact Sheets <https://www.seia.org/seia-factsheet-archive>

American Wind Energy Association <https://www.awea.org/wind-101/basics-of-wind-energy>

Distributed Wind Energy Association http://distributedwind.org/

Agriculture Energy Coalition [www.agenergycoalition.org](http://www.agenergycoalition.org)

Interstate Renewable Energy Council

<https://irecusa.org/workforce-education/training-resources/solar-career-map/>

Geothermal Energy Association www. <http://geo-energy.org/>

**Construction**

<https://www.waybuilder.net/free-ed/SkilledTrades/BuildCarp/default.asp>

**Misc Education**

Timetoast Timeline Maker <https://www.timetoast.com>

Read, Write, Think <http://www.readwritethink.org/>

Edutopia <https://www.edutopia.org/>

Online planbook <https://www.planbook.com/>

Games Quizlet.com Kahoot.com Quizzizz.com

**Virtual Field Trips**

Grow Next Gen <https://grownextgen.org/virtual-field-trips>

Science of Soil <http://www.thescienceofsoil.com/virtualfieldtrips>

Syngenta <http://www.syngenta-us.com/thrive/community/students-ag-virtual-field-trip.html>

Ag Explorer <https://www.agexplorer.com/virtual-field-trip>

Discovery Education <http://www.discoveryeducation.com/events/virtual-field-trips/explore/index.cfm>

Undeniably Dairy <https://www.discoverundeniablydairy.com/virtual-experiences>

Discovering Farmland <http://www.discoveringfarmland.com/virtual-experiences>

Farm Food Canada <http://www.farmfood360.ca/>

Agriculture in the Classroom 360 <https://www.agclassroom.org/360/>