

Resource Name	Topic	Brief Description	Type of Resource	Reference, if applicable	Grade Level	Added by
Consumable Water	Consumable Water	Activity students can take part in to determine the amount of consumable water on earth	Activity	http://www.worldbank.org/depweb/english/modules/envirom/water/index	MS/HS	AGV
What's our gas mileage?	Energy Issues	Survey parking lots to estimate average fuel economy of a local "fleet" of cars.	Activity	http://www.fueleconomy.gov/feg/FEG2010.pdf	MS, HS, HE	B. Hoyle
Energy Audit	Home Energy Use	Students can run an energy audit on their home (or classroom) to see where energy can be conserved	Activity	http://ase.org/section/_audience/educators/edsavhome	MS/HS	AGV
Tom Pfaff's Sustainability Page	Numerical data sets	Data sets incorporating sustainability themes for math classes developed by Tom Pfaff, Ithaca College, NY	Activity	http://www.ithaca.edu/tpfaff/sustainability.htm	HS, HE	Bruce Grant
Water taste tests	Resource management	Conduct taste test of various bottled and tap waters; combine with information about aquifer geochemistry, geography, resource usage, economics, social justice, etc.	Activity		MS, HS, HE	B. Hoyle
Anagrams	Scientific vocabulary and concepts	Solve word puzzles and anagrams to help learn various definitions and concepts; can combine with scavenger hunting around a lab, field area or museum.	Activity	http://wordsmith.org/anagram/index.html	MS, HS, HE	B. Hoyle
Compost Column	sustainability	Students build a compost column out of a 2 liter bottle and determine conditions that work best	Activity		MS/HS	J. Tomaszewski
Exploring the Environment	Environment, Problem Based Learning	Human Impact on the Environment	Activity, Curriculum Program	http://www.cotf.edu/ete/	MS, HS	John Henry
Green Gasoline: Fuel from Plants	Green Fuel	Describes what green fuel is, how we get energy from it, & how non-green gasoline works in comparison	Article	Schirber, M. (2010) Green Gasoline: Fuel from Plants. Chem Matters, 28 (1): 13 - 15.	HS	S. Albergato
A Path to Sustainable Energy by 2030	Wind, Water, & Solar Technologies	Thorough description (including quantitative data) about our current energy sources and the potential for alternative energy sources.	Article	Jacobson, M., Delucchi, M. (2009) A Path to Sustainable Energy by 2030. Scientific American, Nov: 58 - 65.	HS, HE	S. Albergato
The Self-Sufficient-tish Bible	An eco-living guide for the 21st century	lifestyle, food, outdoors, home	book	Hamilton,Dave and Andy(2008) Hodder and Stoughton 382 p.	MS, HS, HE	BPA
The Selfsufficient-ish Bible	An Eco-Living Guide for the 21stCentury	organic green lifestyle	Book	http://www.selfsufficientish.com	MS, HS	BPA
The Raindrop	Drought/watershed	Book describing how a village goes from drought prone to prosperous from watershed management	Book	Published 1993 , by Priti Jain, Feisal Alkazi, Martha Farell and Kaushalya Ramdas, cover Stephen Marrazi, illustration Stephen Marrazi and Reenie.	MS	AGV
"Ecocities: Rebuilding Cities in Balance with Nature"	Ecocities	European responses to translating sustainability efforts into urban and built form	Book	Register, Richard (2006). Ecocities: Rebuilding Cities in Balance with Nature (New Society Publishers)	HS	C. Hein
Blessed Unrest	environment and social justice	sustainability movement chronicled	Book	Hawken,P.(2007)Viking Press 352 p.	MS HS	BPA
Eaarth	Environmental Writing since Thoreau	foreward by Al Gore	Book	McKibben, B. (2008)	HE	BPA
Chipko	Forest Preservation	Book about forest preservation	Book	Published 1993, Feisal Alkazi, Priti Jain, Kaushalya Ramdas, Martha Farell and Shevta Kalyanwala, illustrations and cover Reenie.	MS	AGV

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"Hot, Flat, and Crowded"	Global warming, green revolution, clean energy, energy efficiency, oil dependency	Analysis of global warming, overcrowding and the expansion of the middle class by a journalist. Individual chapters can be used.	Book	Thomas L. Friedman, Hot, Flat, and Crowded, (Farrar, Straus & Giroux, September 2008)	HS	C. Hein
"The Green House: New Directions in Sustainable Architecture"	Green architecture	Various approaches to sustainability in architecture	Book	Alanna Stang, Christopher Hawthorne, (2005) The Green House: New Directions in Sustainable Architecture (Princeton Architectural Press)	HS	C. Hein
Less is More	healthy sustainable planet	anthology	Book	http://www.newsociety.com	MS HS	BPA
The Carbon-Free Home	Kick the fossil fuel habit	remodeling tips	Book	Hren,S. (2008)Chelsea Green, 251 p.	MS, HS	BPA
THE CHILIKA LAKE ADVENTURE	Lake Degredation/water pollution	Book about lake degradation from the effects of water pollution	Book	Published 1997, by Shveta Kalyanwala, Feisal Alkazi and Martha Farrell, edited by Srabani Sen and Bindu Nambiar, cover and illustration by Kavita Dutta.	MS	AGV
Green Living HandBook	lesson plans, a 6-step program	sustainable lifestyle	Book	Gershon,D.(2009) Empowerment Inst. 148 p.	MS	BPA
The Big Book of Self-Reliant Living Omnivore's Dilemma	self-sufficiency living	reference guide	Book	Szykitka,W. ed.(2010) Lyons Press,622 p.	MS, HS, HE	BPA
	sustainable eating	Young readers edition	Book	Pollan,M. (2009) Penguin 276 p.	MS	BPA
Dance for Two	where sciences and humanities intersect	essays written by a physicist/novelist	Book	, A. (1996) Pantheon Books, 169 p.	HS, HE	BLH
Homeowner's Handbook to Energy Efficiency	Home Energy Efficiency Guide	Energy Efficiency practices and technologies that are used in technical training for construction programs and building trades. Good for student research, teaching theory, use in student projects or procurement of materials.	Book, Curriculum Program	Krigger, John, and Dorsi, Chris (2008). The Homeowner's Handbook to Energy Efficiency. Helena MT: Saturn Resource Management, Inc.	HS	Lynn Parrucci
Greenables	Green building materials	samples.edu	Business	http://www.greenables.net	MS HS HE+	BPA
JASON Project	Environmental Interactive lab Applications	Classroom projects, JASON Foundation for Education	Curriculum Program	www.jasonproject.org	MS	NAH
e-Mission: Operation Montserrat	Real historical environmental events	Interaction with real scientists to solve problems in real time;Wheeling Jesuit Challenger Learning Center	Curriculum Program	www.e-missions.net ; emissionscontrolcenter.com	MS	NAH
SEPUP	Sustainability and environmental projects	Modules and kits	Curriculum Program	lawrencehallofscience.org/sepup	MS HS	NAH
The Cooking Exhibition Social Network	social media site, exhibit development, food and agriculture sustainability	To develop their new Cooking exhibition, Liberty Science Center (NJ) created a social media site to allow public participation. The network consists mostly of scientists, chefs and educators who have participated in exhibit development, educational programs and research in the field.	Curriculum Program, Organization, Website, Other	http://cookingexhibitchefs.ning.com	MS, HS	Lynn Parrucci
DLESE	Earth systems	Digital Library for Earth System Education	Database	www.dlese.org	MS, HS, HE	BLH
Teaching Issues and Experiments in Ecology	Ecological activities	Peer-reviewed web-based periodical with materials encompassing teaching, experiments, and educational issues	Database	http://tiee.ecoed.net/	MS, HS, HE	BLH
Global Warming Education	Global warming and climate change	Database of lesson plans, videos, periodicals, and links to other valuable websites and resources	Database	http://www.climatechangeeducation.org	ES/MS/HS	AGV

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Bridge Ocean Education Teacher Resource Center	Marine Education Resources	Free teacher-approved marine education resources; lesson plans, articles, interactive web-based activities, professional development oportunities, grants & awards.	Database	http://web.vims.edu/bridge/?svr=www	ES, MS, HS, HE+	D. Kline
NSDL	National Science Digital Library	Database of videos, periodicals, etc, funded by NSF	Database	http://www.nsdli.org	MS/HS/HE	AGV
Socioeconomic Data and Applications Center	Portal for resources and data for environmental sustainability	Sponsored by Columbia University, NY; mission to connect earth and social sciences	Database	http://sedac.ciesin.columbia.edu/index.html	MS, HS, HE	Nicole Stephens
Amazon Center for Education and Research	Conservation of Amazon Rainforest	West Chester University affiliate (non-profit)	Field trip opportunity	http://www.wcupa.edu/aceer/	HS/HE	PLB
Tyler Arboretum	workshops, classes	Sustainable tree houses, CSA	Field trip opportunity	http://www.tylerarboretum.org/	MS HS HE+	
Environmental Charter School, Los Angeles, CA	Charter School example	Example of 4-year curriculum with emphasis on experiential learning at school with 450 students	Organization	http://www.echsonline.org/academic-life.cfm	MS, HS	Victor Donnay
PennEnvironment	Clean Energy, Air, Water environment	Seeking results on many fronts for PA environment	Organization	http://www.PennEnvironment.org	HE	BPA
Northeast Sustainable Energy Ass.	curriculum guides, resource	reference and links	Organization	http://www.nesea.org	MS, HS, HE	BPA
Earth Force	Environmental opportunities	Six step model to engage students, Earth Force	Organization	http://www.earthforce.org	MS HS	NAH
SAVE Science	Game Based Science Assessment	Situated Assessment in Virtual Environments - partnership developing & testing virtual game based assessments in Science (Temple & ASU)	Organization	email Melanie Wills at mwills@temple.edu	MS, HS	D. Kline
Institute for Humane Education	Humane education	Non profit Organization includes activities for thinking about humane and sustainable living	Organization	http://humaneeducation.org/home	MS, HS, HE	Nicole Stephens
Center for Ecoliteracy	Organization that supports education for sustainable living	Website with information, programs, seminars, and instructional tools for sustainable living	Organization	http://www.ecoliteracy.org/	MS/HS/HE	D. Kline
PAEE	PA Env Edu	conference	Organization	http://www.paee.net	MS HS	BPA
PICE	PA Institute for Conservation educ.	courses, programs focus on PA env.	Organization	http://www.piceweb.org	MS, HS, HE	BPA
PCEE	PA Institute for Env. Educ.	resource for enviro. and educ.	Organization	http://www.pcee.org	MS, HS, HE	BPA
PASA	PA Sustainable AG	conference	Organization	http://www.pasafarming.org	HE +	BPA
Green Schools	School topics and projects	Non profit school program	Organization	http://www.usgreenschools.org	ES/MS/HS	BPA
Green Ambassadors	Student program at Environmental Charter School, Los Angeles, CA	Examples of student activities	Organization	http://greenambassadors.org/main/about	HS	Victor Donnay
Greener Partners	Sustainable CSAs	partnerships/edu	Organization		MS HS HE+	BPA
Janicek Construction	sustainable, green builder	Friends of Willows Cottage	Organization	http://www.janiczekhomes.com	MS HS HE+	BPA
UCS	Union of Concerned Scientists	Organization for political action on environmental issues	Organization	http://www.ucsusa.org/	MS/HS/HE	J. Tomaszewski
Covanta Energy	waste to energy facility	tours of trash to steam plant	Organization	http://www.covantaenergy.com	MS,HS, HE	BPA
NSTA	National Science Teachers Association	Includes periodicals, access to videos, conferences, articles, etc.	Organization/Periodical	http://www.nsta.org	ES/MS/HS/HE	AGV
GreenTeacher	Educators magazine for Sustainability	Educators magazine for Sustainability	Periodical	http://www.greenteacher.com/	ES/MS/HS	D. Kline
Orion	nature/culture/place	environmental articles	Periodical	http://www.orion.com	MS HS	BPA

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YES	Sustainability magazine	Broad range of green articles	Periodical	http://www.yesmagazine.org	MS/HS	BPA
FishBanks	Resource management	Game explores how fishing strategies impact fish populations.	Software, Activity	http://fb.earthednet.org/	HS, HE	B. Hoyle
The World's Deepest Bin	Encouraging people to throw waste into public bins	Waste bins that make noises encourage people to throw their waste into bins	Video	http://www.youtube.com/watch?v=cbEKAwCoCKw&feature=related	MS, HS, HE	C. Hein
Piano Stairs	Encouraging physical activity in public space. "How fun can change people's decisions"	Transforming a subway stair into a piano in order to encourage people to walk instead of taking the escalator	Video	http://www.youtube.com/watch?v=xJMOI5_FKwg	MS, HS, HE	C. Hein
Algae Use	Global Warming	Video on the use of algae to rid CO2 and possibility of ending or slowing global warming	Video	http://www.sciencedaily.com/videos/2007/0407-possible_fix_for_global_warming.htm	MS/HS/HE	AGV
Lower Merion Township Recycling	Recycling	Videos demonstrating "Free mulch and woodchips" and "How to prepare cardboard boxes for refuse pickup"	Video	http://www.lowermerion.org/Index.aspx?page=765	MS, HS	BLH
Poisoned Waters Discussion Guide	Water Pollution	Discussion guide for PBS Frontline Documentary: Poisoned Waters	Video	Smith, H. (Sr. Producer), Young, R. (Director). (2009). Poisoned Waters Discussion Guide. Chevy Chase, MD: FRONTLINE & Hendrick Smith Productions.	MS, HS, HE	D. Kline
NOAA Weather & Environment	Weather, Earth Science & Environmental Impact Videos	A series of "Learning Object" Videos created by the NOAA	Video	http://www.learningdemo.com/noaa/	MS, HS,	D. Kline
Environmental Education EELink	climate change, global warming, endangered species, national and international events	Lesson plans, classroom activities, professional development, jobs	Website	http://eelink.net/ee-linkintroduction.html	MS HS HE+	L Crosby
Environmental Protection Agency	Air trends	Data source	Website	http://www.epa.gov/airtrends/	MS HS HE+	L Crosby
Department of Environmental Protection	Air, Land, Water, Energy	Data Source	Website	http://www.depweb.state.pa.us	MS HS HE+	L Crosby
http://ecofoot.org	Carbon Footprint	Students calculate their carbon footprint	Website	http://ecofoot.org	HS	J. Tomaszewski
www.footprintnetwork.org	Carbon Footprint	Students calculate their carbon footprint	Website	www.footprintnetwork.org	MS/HS	J. Tomaszewski
Penn State Center	Center for Sustainability at Penn State	PA Sustainable guide	Website	http://www.cfs.psu.edu/PAGreenguide.aspx	HS	BPA
Sustainability Research Guide	Climate change; Green campus initiatives; Life cycle analysis; Renewable or sustainable energy; Sustainable agriculture; Sustainable building and desi	Link to a wide range of sources on the topic of social, economic, environmental sustainability.	Website	http://www.lib.vt.edu/subjects/sustainability/	HS, HE	C. Hein
Sustainable New Jersey	Creating Sustainable municipalities	Includes guides & tips for communities to go green, save money, and take steps to sustain their quality of life over the long term.	Website	http://www.sustainablejersey.com/	HS, HE	S. Albergato
Earth Day Network	Earth Day Awareness and Events	An Organization that promotes sustainability and activities for Earth day	Website	http://www.earthday.net/about	ES, MS, HS	D. Kline
EarthMath	Environmental applications	Classroom Projects	Website	http://earthmath.kennesaw.edu/	MS HS	L Crosby
Sustainability	Environmental topics	EPA Website	Website	http://www.epa.gov/sustainability/	MS/HS	BPA
Weatherbug	Environmental weather applications	AWS Convergence Technologies; Climate and weather studies in real time, lessons, interactive community	Website	http://achieve.weatherbug.com	MS HS	NAH

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Climate Impacts Map	Global Climate Change	World map depicting consequences of global climate change; Includes activities that explore the impacts of global climate change.	Website	http://www.climatehotmap.org/curriculum/index.html	HS	S. Albergato
US Green Building Council Green School Buildings	Green Schools	Resources, LEED for Schools information and case studies of green schools	Website	http://www.greenschoolbuildings.org	HS, HE	John Henry
US Green Building Council Green School Buildings Resource Library	Green Schools Resources	Video's, PPT's, case studies and publications for new and existing schools	Website	http://www.greenschoolbuildings.org/resources.aspx	MS, HS, HE	John Henry
Green Existing Schools Toolkit	Green Schools Resources	The Green Existing Schools Toolkit and accompanying training resources will help schools and school districts green their existing portfolio of facilities and achieve LEED for Existing Buildings	Website	http://www.usgbc.org/DisplayPage.aspx?CMSPageID=2114	MS, HS	John Henry
Quantitative Environmental Learning Project	Integration of math & environmental science	Includes data for classroom demos	Website	http://seattlecentral.edu/qelp/	HS HE+	L Crosby
Lesson Planet	Math, Science, Environment	Search Engine for Teachers	Website	http://www.lessonplanet.com	MS HS	L Crosby
NOAA DataStreme Oceans	Oceans, Climate & Real Time Data Resource	NOAA & AMS sponsored website used in their free DataStreme Oceans course. They also have a new Climate Change course and a Weather Course.	Website	http://www.ametsoc.org/amsedu/DS-Ocean/home.html	MS, HS, HE+	D. Kline
Institute of Scrap Recycling Industries, Inc.	Recycling	Self-described "Voice of the recycling industry"; see hot topics list under the about ISRI button.	Website	http://www.isri.org//AM/Template.cfm?Section=Home1	MS, HS, HE	BLH
Recycle City Pennsylvania	Recycling, Waste Management	An interactive game/activity designed by the EPA that includes several different activities students do in Recycle city, such as scavenger hunts, determining strategies to reduce particular types of wastes, managing a supermarket, and many more.	Website	http://www.epa.gov/recyclecity/mainmap.htm	MS/ HS	S. Albergato
Recycling	Recycling	Links to information about recycling in Pennsylvania	Website	http://www.dep.state.pa.us/dep/DEPUTATE/AIRWASTE/WM/recycle/recycle	MS, HS	BLH
National Institute of Standards and Technology's Digital Library of Mathematical Functions	Reference source for useful math functions	Digital companion to NIST Handbook of Mathematical Functions	Website	http://dlmf.nist.gov/	HE	BLH
EPA - Wastes	Solid Waste, Hazardous Waste, and Conservation	EPA Clearinghouse on Waste Issues. Includes articles, reports, tools, actions, and educational materials for teachers.	Website	http://www.epa.gov/epawaste/index.htm	ES, MS, HS	D. Kline
Interactive Garbage	Solid Waste, Hazardous Waste, Sewage, Recycling	This website has students click on links and learn about different types of waste/garbage and potential solutions to the problems that waste can cause.	Website	http://www.learner.org/interactives/garbage/intro.html	HS	S. Albergato
Institute for Sustainable Communities	Sustainable Communities	citizenship, environmental protection	Website	http://www.iscv.org/	HS	C. Hein
The Earth Institute Columbia University	Sustainable Development	Up to date information on issues relevant to sustainable development	Website	http://www.earth.columbia.edu/articles/view/1791	HS	C. Hein

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NAAEE	Sustainable topics	N. American Assn. for Environmental Education	Website	http://www.naaee.org	MS/HS	BPA
US Geological Surveys	Water	Data Source	Website	waterdata.usgs.gov/nwis/rt	MS HS HE+	L Crosby
Weather Underground	Weather & Climate	Weather Website - real-time current conditions, forecasts, warnings and searchable histories from local weather stations. Includes a Solar Calculator (http://www.wunderground.com/calculators/solar.html)	Website	http://www.wunderground.com/	MS, HS	D. Kline
Sustainability at the National Academies	Wide range of sustainability issues. Energy, Research, Institutions, Life Support Systems, Economy, Industry, People	Information on sustainability and access to downloadable books	Website	http://sites.nationalacademies.org/PGA/sustainability/index.htm	HS, HE	C. Hein
Together Green	Environmental and Conservation Based Service Learning resource	This site helps groups identify what they can do to help keep their local environment green.	Website, Service Learning	http://www.togethergreen.org/ActionCenter/Default.aspx	ES, MS, HS	D. Kline
Action Bioscience	Biodiversity, Environment, Genomics, Biotechnology, Evolution, New Frontiers	A non-commercial, educational web site created to promote bioscience literacy by providing articles on issues related to seven bioscience challenges.	Website, Article	www.actionbioscience.org	HS	S. Albergato
National Geographic Xpeditions	Geography & Environmental Searchable Curriculum Resource	Searchable website providing articles, videos, lesson plans, activities, and interactive adventures on geographical and environmental topics.	Website, Curriculum Program	http://www.nationalgeographic.com/xpeditions/	MS, HS	D. Kline
Discovery Channel - Ecology	Habitats, Biomes, Ecosystems	Website with links that take you to a description of a classroom lesson, and give you links to print any handouts that may be needed.	Website, Lesson Plan	http://school.discoveryeducation.com/lessonplans/ecol.html#6-8	MS & HS	S. Albergato
Thinkfinity Expeditions in Sustainable Ocean Harvests	Overfishing effects on Tuna	A collection of articles, lessons, and videos that deal with sustainability issues regarding commercial Tuna fishing.	Website, Lesson Plan	http://thinkfinity.org	MS, HS	D. Kline
Green Valley's Water Bottle Issue	Plastic Water Bottles & Sustainability	web-based slide show on environmental & economic issues with bottled water.	Website, Other - Slideshow	http://www.greenvalleys.org/pdfs/waterdisaster.pdf	MS, HS	D. Kline
Youth Service America	Service Learning Resource	Organization that promotes and facilitates the development and implementation of service learning projects	Website, Service Learning	http://ysa.org/	ES, MS, HS	D. Kline
The Story of Stuff	solid waste, garbage, waste	Web-based movie describing the origin of stuff and resource economy	Website, Video	http://www.storyofstuff.com/	MS,HS,HE	D. Kline