Institute for Sustainable Energy
at Eastern Connecticut State University
www.sustainenergy.org

ENERGY DAY CURRICULUM IDEAS-TECHNOLOGY

Topic	Elementary	Middle School	High School
T1 Moving Machines	**X**	**X**	
T2 Lifecycle Loops	**X**	**X**	**X**
T3 The Conservation Classroom	**X**	**X**	**X**
T4 Penny-pinching Packages	**X**	**X**	**X**
T5 Let the Sun Shine In	**X**	**X**	**X**
T6 Trading With Power		**X**	**X**

T1 Moving Machines

Research different common moving toys. What kind of energy is used? Discuss using rechargeable batteries or power packs to reduce disposable battery waste. Try building your own simple machines.

T2 Lifecycle Loops

Trace the lifecycle of a product from raw materials to disposal. Discuss energy used and how energy could be saved.
http://css.snre.umich.edu/css_doc/product_life_cycle.pdf
http://www.ec.gc.ca/ecocycle/en/whatislcm.cfm
http://www.nsta.org/pubs/nstapress/pb154x/default2.asp

T3 The Conservation Classroom

Study your classroom to find ways to make it more energy efficient.

Do an energy audit of your school, room or home.

Energy UUUU and Watt Watchers programs are available through Wilson Educational Services, Inc. For more information see http://www.wilsoned.com/Programs.html

Bright Ideas and STEM, Savings Through Energy Management programs are available through Wilson Educational Services, Inc. For more information see
http://www.wilsoned.com/Programs.html

http://estar3.energystar.gov/hey/Intro.html
http://www.cl-p.com/clmres/energy/indexenergy.asp

T4 Penny-pinching Packaging

Investigate packaging. Design a better packaging for a common item.
http://packaging.hp.com/enviro/environm.htm

http://www.sun.com/aboutsun/ehs/ehs-design.html
http://www.enviro-pac.com/news.htm
http://www.grrn.org/zerowaste/kit/briefing/principles1.pdf
http://sharp-world.com/corporate/eco/2001html/eco15.html
http://www.foodproductdesign.com/archive/1991/1091PK.html
http://www.unilever.com/environmentsociety/casestudies/packaging/Global_DesignLightweighting.asp

T5 Let the Sun Shine In

Design a house that minimizes the use of non-renewable energy.

T6 Trading With Power

Compare individual power tools to the alternative hand-operated ones in terms of cost to manufacture, purchase, maintain and use.

Study the role of energy in the various trades taught in your school.

Consider the role in energy conservation played by each of the trades taught in your school. What measures are mandated in the codes that affect your field?