

3rd Grade Overview

Sources of Energy, States of Matter, Light & Heat



Intro to Energy & 10 Sources of Energy

Topic	Kit Materials	Lessons & Activities*	Additional NEED Curriculum <i>www.need.org</i>
Intro to Energy		What is Energy? Teacher Directions & Student Handout	
10 Sources of Energy	Energy Relay, Energy Sources Pictures & Definitions	Energy Chants, Energy Source Matching	<i>Energy Infobooks</i> (primary& elementary); <i>Energy Carnival</i> (primary & elementary); <i>Energy Stories & More, Energy Games & Icebreakers</i>
Solar	Solar Toys, Ultraviolet Detecting Beads	UV Bead Activity Sheet	<i>The Sun & Its Energy</i> (primary); <i>Wonders of the Sun Teacher & Student Guides</i> (elementary)
Wind		Pinwheel	<i>Wind is Energy</i> (primary); <i>Wonders of Wind Teacher & Student Guide</i> (elementary)
Hydropower			<i>Water & Energy Teacher & Student Guide</i> (primary) <i>Wonders of Water Teacher & Student Guide</i> (elementary)
Biomass			<i>Biodiesel</i> (elementary); <i>Ethanol</i> (elementary)
Geothermal			
Coal	Coal Sample		<i>This Mine of Mine</i> (elementary)
Natural Gas	Natural Gas Scratch & Sniff		<i>Oil, Gas and Their Energy</i> (primary), <i>The Wonders of Oil and Gas</i> (elementary), <i>Liquefied Natural Gas</i> (elementary)
Nuclear	Sample Nuclear Fuel Pellet		
Petroleum		Petroleum By-Products and M&M Activity, Barrel of Petroleum Graphic	<i>Oil, Gas and Their Energy</i> (primary), <i>The Wonders of Oil and Gas</i> (elementary), <i>Transportation Fuels Infobook</i> (elementary) Ohio Oil and Gas Energy Education Program (OOGEEP)
Propane			

*NEED Energy Stories & More contain additional activities for each of the 10 Sources of Energy.

States of Matter

Topic	Kit Materials	Lessons & Activities	Additional NEED Curriculum
States of Matter	Solid/Liquid/Gas Signs, Phases of Matter arrows, heat in/out arrows	Investigating States of Matter Student Worksheet	

Light, Heat, & Electricity

Topic	Kit Materials	Lessons & Activities	Additional NEED Curriculum
Lighting Lesson	Lamp bases, boxes, digital thermometers, light bulbs, watt meter	Lighting Activity Lessons 1, 2 & 3	<i>Energy Works Teacher & Student Guide</i> (elementary)

Energy Efficiency & Conservation

Topic	Kit Materials	Lessons & Activities	Additional NEED Curriculum
Efficiency & Conservation	CFL's for students	School Energy Patrol, Most Wanted Energy Waster Posters	

Student Worksheets and Teacher Lesson Plans are available at:
www.ohioenergy.org/educators/teachers

NEED Curriculum is available at:
www.need.org