

Pennsylvania Academic Standards for Science and Technology

<b>Natural Gas Fulfillment</b>	<b>Pennsylvania Academic Standards for Science and Technology</b>			
<b>High School (9-12) Grades</b>	Science Standards for students by 10th grade			
State Goals	<b>3.1.10</b>	<b>3.2.10</b>	<b>3.4.10</b>	<b>3.5.10</b>
<b>Energy in Science CD</b>	Unifying Themes	Inquiry and Design	Physical Science, Chemistry & Physics	Earth Science
<b>Biology</b>				
Cars & Environment				
Biogas	E	B,C	A,B	
Populations & Energy	E			
Offshore Oil & Environment		B		
Solar Energy	E	B,C	A,B	
<b>Physics</b>				
Cogeneration	E	B,C	A	
Fuel Cells	E	B,C	A,B	
Thermal Energy	E	B,C	A	
Laws of Natural Gas	E	B,C	A	
Energy		B,C	A	
<b>Chemistry</b>				
Gas Laws	E	B,C	A	
Thermodynamics	E	B,C	A	
Fossil Fuels		B,C	A,B	
Alkanes	E		A	
Coal Gasification		B,C	A,B	
<b>Earth Science</b>				
Hydrocarbon Geology	E	B,C	A	A
Petroleum Exploration				A
Recovery & Refining	E	B,C	A	
Unconventional Sources of Oil & Gas		B,C	A,B	
Oil and Natural Gas Reserves	E	B,C	A	
<b>Natural Gas Basics CD</b>				
The Search for Natural Gas	E	B,C	A	
The Natural Gas Store	E	B,C	A,B	

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<b>Energy in Science CD</b>	Unifying Themes	Inquiry and Design	Physical Science, Chemistry & Physics	Earth Science
Environmental Safety Search				
Meter Reader Relay				
Natural Gas at Work				
Create a Commercial				
Natural Gas Mobile				
Natural Gas Hide 'N Seek				B
Makin' Gas	E	B,C	A,B	
Mix N Match				
Burn It Blue	E	B,C	A,B	
Hi Tech Future				
Natural Gas Haiku				
<b>More Experiments</b>				
What is a Gas? (background)			A,B	
What is a Gas Like?	E	B,C	A	
More About Gas	E	B,C	A	
Does Air Really Push Upward?	E	B,C	A	
Hot and Cold Air	E	B,C	A	
Making a Mixture of Solids		B,C	A	
Burning Air		B,C	A,B	
Candle Wax Vaporizes Before it Burns		B,C	A,B	
How Fast Does a Candle Burn?		B,C	A,B	
Incomplete Burning		B,C	A,B	
Making Carbon Dioxide Gas		B,C	A,B	
Carbon Dioxide in Exhaled Air		B,C	A,B	
<b>The Science of Flames Poster</b>	E	B,C	A,B	
<b>Natural Gas Poster</b>	E	B,C	A,B	
<b>Natural Gas Energist</b>	E	B,C	A,B	B
<b>Think! Energy Poster</b>	E			
<b>Energy Safe and Energy Wise Assessment</b>	E			

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<b>Energy in Science CD</b>	Technology Education	Technological Devices	Science, Technology & Human Endeavors
<b>Biology</b>			
Cars & Environment			A-C
Biogas	A	A,B	A-C
Populations & Energy			A-C
Offshore Oil & Environment			A-C
Solar Energy		A,B	A-C
<b>Physics</b>			
Cogeneration		A,B	A-C
Fuel Cells		A,B	
Thermal Energy		A,B	
Laws of Natural Gas		A,B	
Energy		A,B	
<b>Chemistry</b>			
Gas Laws		A,B	
Thermodynamics		A,B	
Fossil Fuels		A,B	A-C
Alkanes			
Coal Gasification		A,B	A-C
<b>Earth Science</b>			
Hydrocarbon Geology	A	A,B	
Petroleum Exploration			
Recovery & Refining		A,B	
Unconventional Sources of Oil & Gas		A,B	A-C
Oil and Natural Gas Reserves		A,B	A-C
<b>Natural Gas Basics CD</b>			
The Search for Natural Gas		A,B	A-C
The Natural Gas Store	A	A,B	A-C

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<b>Natural Gas Energist</b>	A	A,B	B
<b>Think! Energy Poster</b>			B
<b>Energy Safe and Energy Wise Assessment</b>			B