

	Write a 100-word essay defining the term <i>energy</i> . In this report explain the following statement: "Energy cannot be created or destroyed." Write your essay on a separate piece of paper and insert it into your workbook. Define the following forms of energy and give one example of each: a. Kinetic Energy:	Leader's Initials Date	
	Example:		T
	b. Potential Energy:	RA	ANGE
	Example:		
	c. Chemical Energy:		
	Example:		
	d. Solar Energy:		
	Example:		
	e. Heat Energy:		
	Example:		
	f. Atomic Energy:	Leader's	
	Example:	Initials Date	
3.	Draw an energy diagram of a car. Show the initial sources of energy, the different forms that the energy is converted into, devices used in the conversion process, the form in which energy is released, and the energy wasted. Make sure to include the battery, air conditioning, radio, lamps, starter, alternator, wipers, and pumps. Complete MWS 1 "Energy Diagram of a Car."	Leader's Initials Date	

	Leader's Initials Date	
	Leader's Initials Date	
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4	. Conduct two energy surveys. One survey must be of your home. The other
	survey may be one of the following: church, workplace, or school. Include
	sources of energy, devices using energy, energy waste areas, and recommen
	dations to use energy more wisely and minimize waste. Give a copy of your
	findings to each facility.
	Complete MWS 2 "Home Energy Survey" and MWS 3 "Other Energy
	Survey."

5.	Perform an energy conversion demonstration. During the demonstration,
	explain in your own words the different forms that the energy is converted
	into.
	Date Given: Subject:
6.	Research the different kinds of energy resources of the world and make a
	table detailing the advantages and disadvantages of each (cost, pollution,

safety, etc.). Make sure to at least include wind, coal, wood, natural gas,

petroleum, waterpower, and solar.

Resource	Advantages/Disadvantages
Wind	
Cost	
Pollution	
Safety	
Coal	
Cost	
Pollution	
Safety	
Wood	
Cost	
Pollution	
Safety	

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Advantages/Disadvantages	
	Ventality
	34
	RANGER
	Leader's
	Initials Date
rms of energy produced), date established, a photograph, and any resting facts you may find. Research the energy resources used in d States and the relative proportions of energy supplied by each. lant:	
	earest power plant facility to your community, including location, rms of energy produced), date established, a photograph, and any resting facts you may find. Research the energy resources used in a States and the relative proportions of energy supplied by each. lant:

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	1997 numbers from the lesson.		
	Petroleum Products:	Btu's	%
	Natural Gas:		%
	Coal:	Btu's	%
Leader's	Nuclear:		%
Initials	Hydroelectric	Btu's	%
Date	Others:	Btu's	%
Leader's Initials			
Date			
9. Leader's Initials Date	Obtain one article from a current newspaper tion of energy. Explain how it applies to you saving or wasting electrical energy affects the Insert the article into your workbook.	r life. Explain to a group hov	
Leader's 10.	Develop a plan to save energy for a period o record of energy savings.	f two weeks and keep a detain	iled
Date	Insert your plans and records into your work	book.	

Energy resources in the United States: Use current numbers if available or