Name	Class	Date
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Skills Worksheet

Critical Thinking

ANALOGIES

In the space provided, write the letter of the pair of terms or phrases that best complete the analogy shown. An analogy is a relationship between two pairs of words or phrases written as a:b::c:d. The symbol: is read "is to," and the symbol:: is read "as."

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		c. hydrogen fuel : alternative energyd. biomass fuel : hydroelectric energy
		c. fuel cells : hybrid carsd. energy conservation : fluorescent bulbs
	 a. semiconductors: wind power b. solar collectors: passive solar hea c. hydrogen: photovoltaic cells d. cold ocean water: tidal power 	
	 4. gasoline engine : energy inefficiency a. hybrid car : energy efficiency b. incandescent bulb : fluorescent bulb : fluorescent bulb : generating hydrogen : energy cord. ocean water : thermal conversion 	oulb nservation
	 5. burning biomass fuel: air pollution a. geothermal energy: land pollution b. solar energy: noise pollution c. hydroelectric energy: disrupted d. fuel cells: water pollution 	on
	6. sunlight : solar cells :: a. geysers : heat pumps b. gasoline : octane	c. hydrogen : fuel cellsd. air conditioning : heat pumps
	7. tidal power : salt water ::a. gasoline : hybrid carb. hydroelectric power : fresh water	c. fuel efficiency : hybrid card. turbine : passive solar
	8. energy conservation : pollution :: a. oil : gas b. sun : light	c. gravity : hydroelectricd. hybrid cars : emissions

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Cr	ritical Thinking continued		
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INT	ERPRETING OBSERVATION	NS	
Rea	d the following passage, ar	nd then answer the que	estions below.
	Imagine that you are a government of Iceland about the "land of fire a tectonic activity. As a r and hot springs on the northern latitudes, it reason annual springtime snow waterfalls—two of whi and some volcanoes ar many trees around, only What are two sources of enanymers.	to plan a city. On the a and ice," and learn that result, there are many visland. Also, because I eccives a lot of snowfalns in for a landing, you when we will be some the still capped with snowly grass and shrubs in a	irplane you read tit was formed from colcanoes, geysers, celand is located in l in winter. notice that the lakes and colossal ! The sky is overcast, w. There aren't very a rocky landscape.
10.	What might be a cost-effec	etive way to provide ho	t water?
	Would it be effective to use hot water? Explain your ar	-	ors to provide electricity or

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Critical Thinking continued						
AGREE OR DISAGREE						
Agree or disagree with the following	ng statements, and s	support your answer.				
12. Renewable energy sources car	12. Renewable energy sources cannot generate large amounts of electricity.					
13. Fossil fuels are biomass fuel s	ources and are rene	wable.				
14. Fifty years from now, the major solar cells.	or source of energy t	for people on Earth will be				

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Critical Thinking of	ontinued		
REFINING CONCEP			
	• .	•	nderstanding of concepts ne questions that follow.
15. If hydrogen is th	e most common sive and polluting	element on Ear g? What is a pos	th, what makes generating ssible solution that would
you have decide	d to use a wood antages of doing	furnace. What a	reduce your electric bills, so are the environmental advan- er steps could you take to
List the forms of	renewable energ ble energy you li	gy. Describe hosted. If you nan	etly or indirectly from the sun. we the sun creates the various ned any forms of renewable heir sources.