Critical Thinking Skills



			Reading						
	Skills for Critical Thinking	Your School and Climate Change	How Your School Uses Energy	Cars, Buses, Bicycles, and Feet	Footprints in Your Lunch	We Recycle Cans, Trees Recycle Carbon	Study Green	Reduce What You Can and Offset the Rest	Hands-on Activities
LEVEL 1 Remembering	 List Details/Facts Recall Information Match Vocabulary to Definition Define Vocabulary Sequence 	<i>J J J</i>	\frac{1}{1}	X		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1111	1 1 1	✓
LEVEL 2 Understanding	Demonstrate UnderstandingDescribeClassify	No.	\ \ \ \ \	\ \ \ \ \ \	1 1 1	1 1 1	111	1 1	111
LEVEL 3 Applying	 Application to Own Life Organize and Classify Facts Infer Outcomes Utilize Alternative Research Tools 	1	1 1	1	1 1	111	1 1	1	1
LEVEL 4 Analysing	 Distingu b canings Make Inferences Draw Conclusions Identify Cause and Effect Identify Supporting Evidence 	1	1	1 1	1	1	111	1 1 1	1
LEVEL 5 Evaluating	 State and Defend an Opinion Make Recommendations Influence Community 		1				1	1	1 1
LEVEL 6 Creating	 Compile Research Information Design and Application Create and Construct Imagine Alternatives 			1	1	<i>y</i>	1	1	1 1 1

Based on Bloom's Taxonomy

2.





How Your School Uses Energy

•			• • • • •			
1.	Cir	cle the w	ord TRUE if the s	statement is TR	UE or Circle the	e word
	FAI	LSE if it is F	ALSE.			
	a)	All school	buildings are des	signed to be er	nergy efficient.	
		TRUE	FALSE			
	b)	Most elec	tricity is generate	ed by burning f	ossil fuels.	
		TRUE	FALSE			
	c)	Heating u	ses energy, and c	air conditioning	saves energy.	
		TRUE	FALSE			
	d)	Sunlight c	an be used to he	eat water.		•
		TRUE	FALSE			
,	e)	Sunlight c	an be used to ge	enerat <i>e e</i> lectric	cir	
•		TRUE	FALSE			•
	• • •			AX.		•
			40 11.			
Pui	ac	neck mark	(✓) next to	ansver hat is	s most correct.	
a)	The	letters EPA	stand for	/ 3		
	\bigcirc	A Earth I	Positive As och	NO.		
	\bigcirc	B Evergr	eer Plantin Acti	ivity.	() L	
	O		nental Protection		(9 3 3)	
	\circ	D Ecolog	Prac cés Ad	dvancement.		
b)	Whi	ch energy	source is used	to generate m	ost of the electri	city in the United
	Stat	tes?				
	\bigcirc	A oil				(OTTIC)
	\bigcirc	B coal				
	O	c nucled				
	\circ	D hydroe	electric			
c)	Who	at is the m	ain advantage (of double pan	e windows?	
	\bigcirc	A They c	re stronger.			
	O	•	o not fog over.			
	\bigcirc		educe heat loss.		THE STATE OF THE S	
	/ \	D They c	re easier to clear	n		

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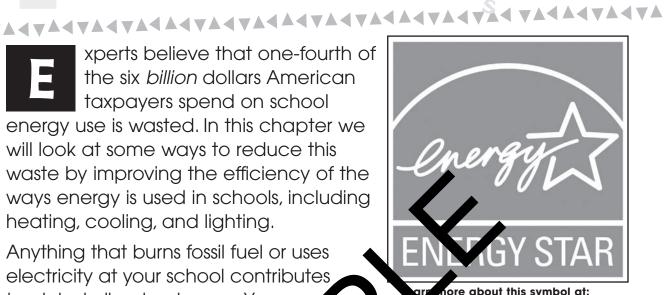




How Your School Uses Energy

xperts believe that one-fourth of the six billion dollars American taxpayers spend on school energy use is wasted. In this chapter we will look at some ways to reduce this waste by improving the efficiency of the ways energy is used in schools, including heating, cooling, and lighting.

Anything that burns fossil fuel or uses electricity at your school contributes to global climate change. You might think that electricity release



no CO₂, but remember that most each city is produced by burning fossil fuels. Now we will look at ways that schools use energy.

Most schools have a heating vsico for cold days and a ventilation system to move air aro incland eep it fresh. Many schools also have an **air conditioning** system for hot days. These three systems work together in what is called the heating, ventilating, and air conditioning system or **HVAC** systems are much more energy efficient than others. If an Harman system meets a certain standard of efficiency, it is given an Energy Star rating by the Environmental Protection Agency (EPA) and marked with the symbol shown above.



Explain how using electric lights increases CO, emissions into the atmosphere.

Try to find out which things in your school have an Energy Star rating. In addition to the HVAC system, look for the ratings on computers,

How Your School Uses Energy

3.	Answer	the	auestions	in	complete	sentences.
J.	Ali3Mei	IIIC	quesilolis		Complete	semences.

a)	Describe two ways to save energy used for school lighting.				
b)	Describe two ways to save energy used to power a school's HVAC system.				

Extensions & Applications

In each square of the right-hand column of the graphic organizer below, describe a way to reduce energy use for the energy need listed in the square to the left.

School Energy Need	How to Reduce Energy Use
Heating	
Air conditioning	
Hot water	
Lighting	

See page 40 for Final Version Worksheet.