Critical Thinking Skills

Global Warming: Reduction

Skills For Critical Thinking		Reading								Hands-on Activities
		Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8	
LEVEL 1 Remembering	• List Details/Facts	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Recall Information	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Match Vocabulary to Definitions	✓	✓	✓	✓	✓	✓	✓	✓	
	• Define Vocabulary	✓	✓	✓	✓	✓	✓	✓	✓	
	• Recognize Validity (T/F)	✓	✓	✓	✓	✓				
LEVEL 2 Understanding	• Demonstrate Understanding	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Explain Scientific Causation	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Rephrasing Vocab. Meaning	✓	✓	✓	✓	✓	✓	✓	✓	
	• Describe	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Classify Objects into Group	✓	✓	✓	✓		✓		✓	✓
LEVEL 3 Applying	• Application to Own Life	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Model Scientific Process	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Organize and Classify Facts	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Utilize Alternative Research Tools	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 4 Analysing	• Distinguish Feelings	✓	✓	✓	✓	✓	✓	✓	✓	
	• Make Inferences	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Draw Conclusions Based on Facts Provided	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Classify Based on Facts Researched	✓		✓		✓	✓		✓	✓
	• Sequence Events				✓					✓
LEVEL 5 Evaluating	• State and Defend an Opinion		✓	✓	✓	✓	✓	✓		✓
	• Evaluate Best Practices			✓	✓		✓	✓	✓	✓
	• Make Recommendations	✓		✓	✓	✓	✓	✓	✓	✓
	• Influence Community			✓	✓	✓	✓	✓	✓	✓
LEVEL 6 Creating	• Compile Research Information	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Design and Application		✓	✓	✓	✓	✓	✓	✓	✓
	• Create and Construct	✓	✓	✓	✓	✓	✓	✓	✓	✓
	• Imagine Self in Scientific Role	✓		✓	✓	✓	✓		✓	✓

Based on Bloom's Taxonomy

NAME: _____

Before You Read

Alternative Fuels

1. Have you ever heard of the term **alternative fuels**? Where did you hear about it? Explain what you know about alternative fuels on the lines below.

_____

_____

_____

2. Match the term on the left to its definition on the right. You may use a dictionary to help you.

1	**vehicle**	the preserved remains of plants or animals that lived long ago	A
2	**modern**	a means of transporting people or goods	B
3	**fossil**	substances put into the atmosphere by people	C
4	**solution**	pertaining to present and recent time	D
5	**emissions**	substances in the atmosphere that absorb heat	E
6	**alternative**	existing only in a certain amount	F
7	**limited**	a means to solve problems	G
8	**greenhouse gases**	a different way of doing things	H

NAME: _____

Reading Passage

Green Buildings

Many places are now passing laws to encourage new buildings to be "green." Green buildings are designed with the goals of lowering greenhouse gas emissions, using less toxic materials, and reducing waste. Green buildings can lower greenhouse gas emissions in several ways.

Green (eco-friendly) home

Remember that the manufacturing of products results in a lot of greenhouse gas emissions. Green buildings use more recycled products, such as carpets made from recycled fibers and wood reclaimed from older buildings. Green buildings may also favor products from industries that have made progress in reducing greenhouse gas emissions.

What is a green building?

_____

_____

Green buildings also lower greenhouse gas emissions by using less energy for heat and light. They often have windows and skylights placed to allow a lot of light into the inside spaces. They may be positioned to allow for direct sun in the winter, and shade in the summer to reduce the need for heating and cooling. Many green buildings also use solar cells and other alternative sources of energy.

Some green buildings are also designed to use less water. This helps save energy, too. Water must be pumped from reservoirs or other natural sources. Water must also go through a treatment process to be purified, which also uses energy. Green buildings may have rain collection systems or water recycling systems that save both water and energy.

NAME: _____

Lowering Your Greenhouse Gas Emissions

2. Answer each question with a complete sentence.

a) Explain why developed countries have higher greenhouse gas emissions than developing countries.

_____

_____

_____

b) How do you get from your home to school every day? Are there other choices you could make to lower greenhouse gas emissions? Explain.

_____

_____

_____

Research

3. What changes could you make in your life to help lower greenhouse gas emissions?

First, make a list of all the ways you use fossil fuels. Remember that fossil fuels are used to power most vehicles, and to provide electricity in most areas. Carry a notebook with you for one day, and list all of the ways you use electricity and all the times you ride in gas-powered vehicles.

Then, go through your list and think about things you could change to lower your greenhouse gas emissions. Create a T-chart. List your daily uses of fossil fuels in the left column. In the right column, write ways to lower your use of fossil fuels.