



Critical Thinking Skills



Waste Management: Prevention, Recycling & Conservation

Skills For Critical Thinking		Reading								Hands-on Activities
		Conservation	Reduce & Reuse	Recycling	Composting	Fresh Water Resources	Conserving Fresh Water	Clean Air Resources	Sustainable Living	
LEVEL 1 Knowledge	<ul style="list-style-type: none"> List Details/Facts Recall Information Match Vocab. to Definitions Define Vocabulary Recognize Validity (T/F) 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 2 Comprehension	<ul style="list-style-type: none"> Demonstrate Understanding Explain Scientific Causation Rephrasing Vocab. Meaning Describe Classify Objects Into Groups 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 3 Application	<ul style="list-style-type: none"> Application to Own Life Model Scientific Process Organize & Classify Facts Utilize Alternative Research Tools 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 4 Analysis	<ul style="list-style-type: none"> Distinguish Meanings Make Inferences Draw Conclusions Based on Facts Provided Classify Based on Facts Researched Sequence Events 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 5 Synthesis	<ul style="list-style-type: none"> Compile Research Information Design & Application Create & Construct Imagine Self in Scientific Role 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 6 Evaluation	<ul style="list-style-type: none"> State & Defend an Opinion Evaluate Best Practices Make Recommendations Influence Community 	✓	✓	✓	✓	✓	✓	✓	✓	✓

Based on Bloom's Taxonomy



Sustainable Living



1. Have you ever heard of the terms "Green building" or "Green business"? What do you think the word "Green" means in these terms?

2. Fossil fuels are burned to make electricity. Think about all of the ways you use electricity in your home. On the lines below, write **seven** things in your home that use electricity.

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____

3. a) Use a dictionary to look up the word ALTERNATIVE. Write the definition on the lines below.

The definition of **alternative** is:

b) What do you think is the meaning of the term "alternative fuel?"



Sustainable Living



What are sustainable buildings?

Some people choose to use **sustainability** as a goal in designing buildings and running households. The goal of sustainable living is to use as few resources and produce as little waste as possible. Sustainable buildings, also called green buildings, are designed with these goals in mind. Green buildings often use:

- sources of electricity that do not use fossil fuel burning
- building materials that are **nontoxic**
- systems to catch rainwater and use it for watering gardens
- recycled materials



Describe the goal of sustainable living.



What are sustainable businesses?

Businesses can also practice sustainability. Laws require most businesses to take some steps to conserve resources. For example, factories are not allowed to dump toxic waste into the environment. However, some business leaders are choosing to run their businesses with the model of sustainability.

For some businesses, sustainability means recycling all materials and creating as little waste as possible. Some businesses choose to run stores and factories using renewable energy sources like solar and wind power. Businesses that transport goods can practice sustainability by choosing to run their trucks on alternative fuels.

Alternative fuels do not use fossil fuels, so they create less pollution. They are often made from plant products, and so are renewable.

Sustainable businesses are sometimes called "Green" businesses. More and more, business leaders are discovering that going "Green" can save them money as well as conserve resources for the future and protect the environment. When you choose to buy products or services from a Green business, you are also helping save resources and the environment.



Sustainable Living



1. Use the words in the list to answer the questions.

- | | | | |
|-------------------|----------------|----------------|--------------|
| rainwater | nontoxic | wind | fossil fuels |
| alternative fuels | Green business | plant products | |

- _____ a) Which source of energy causes air pollution when burned?
- _____ b) What is another term for a sustainable business?
- _____ c) What can sustainable businesses use to power trucks instead of gasoline?
- _____ d) What can sustainable homes catch to use for watering gardens?
- _____ e) Which type of building materials do not have substances that harm people or other living things?
- _____ f) Which source of power is renewable?
- _____ g) What can be used to make alternative fuels to power automobiles?

2. **Circle** the sources of electricity that a sustainable business might use to power their stores.

- | | | | |
|----------------------|--------------|---------------------|-----------|
| oil burning furnaces | solar panels | gasoline generators | windmills |
|----------------------|--------------|---------------------|-----------|

3. **Underline** the goals of sustainable living.

- | | | |
|------------------------|----------------------|------------------------|
| use more petroleum oil | create less waste | recycle more materials |
| create less pollution | use more fresh water | spend more money |