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STUDENT HANDOUTS READING COMPREHENSION

• How Warm Will Earth Get?
• Alternative Fuels
• Transportation
• Industry
• Urban Planning
• Green Buildings
• Masdar City
Lowering Your Greenhouse Gas Emissions
Hands-on Activities, Writing Tasks 11
• Crossword
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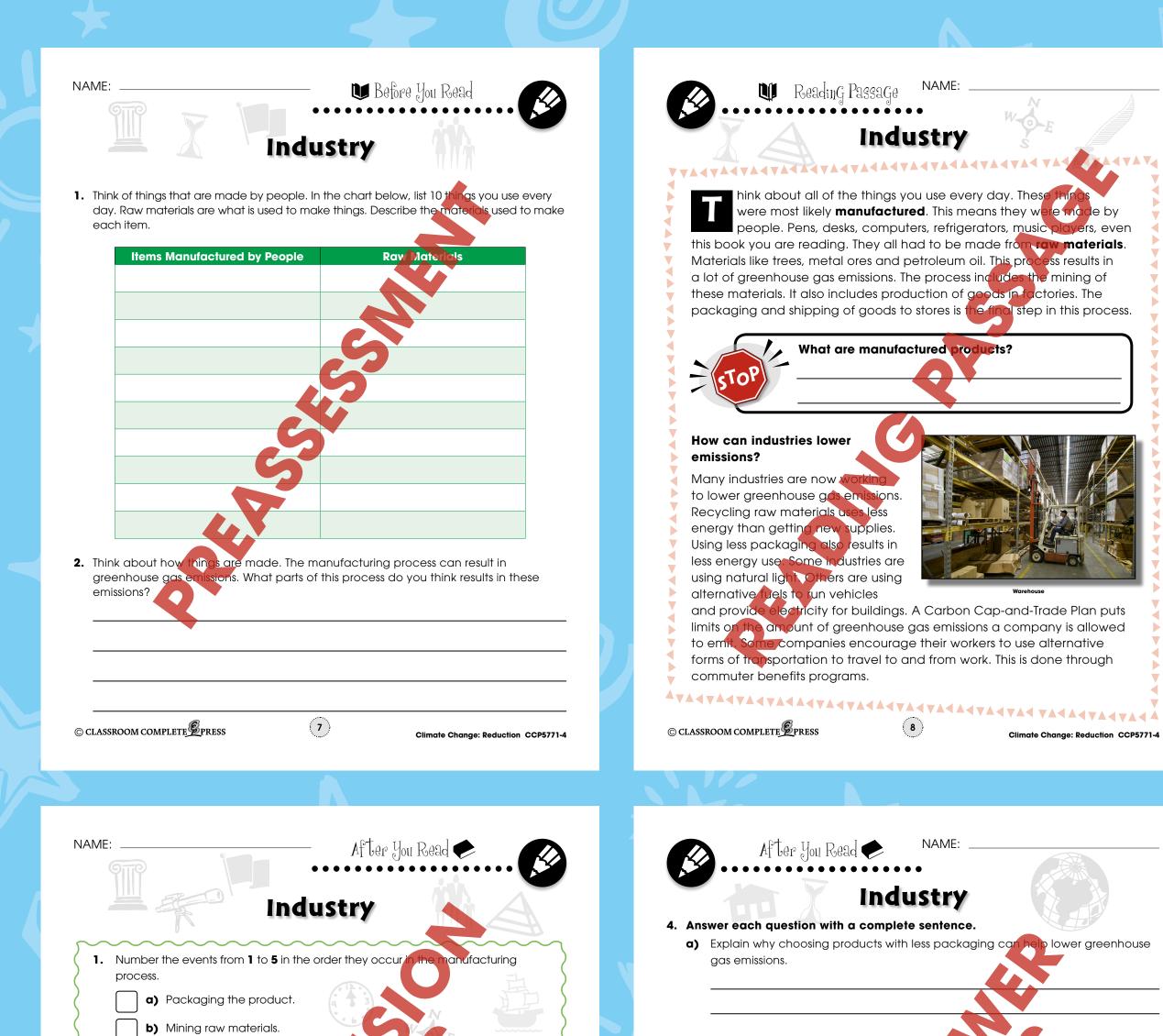
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- Enter item CC5771
- Enter pass code CC5771D for Activity Pages









b) Explain why recycling can result in lower greenhouse gas emissions.

e) Transporting raw materials

d) Assembling the product in a factor

c) Shipping the product.

help lower greenhouse gas emissions. 2. List steps that industries cou



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Research

5. Learn more about the life cycle of a product. Choose a manufactured product you use in your everyday life. Then, research the life cycle of your product. From getting the raw materials to disposing of the product after its useful life. Use the internet or library resources. Find out how your product goes through each stage of its life cycl

- What are the raw materials? How do people get them?
- How are the raw materials made into the product? Where are the factories that make the product? What are the main processes involved?
- nds of packaging are usually used for the product? How is the packaging produced?
- How is the product shipped?
- How is the product disposed of after its use? Are any special steps needed to dispose of the product safely?

Create a poster or chart. It should show each step in the life cycle of your product. Make a note of which steps result in greenhouse gas emissions.

10

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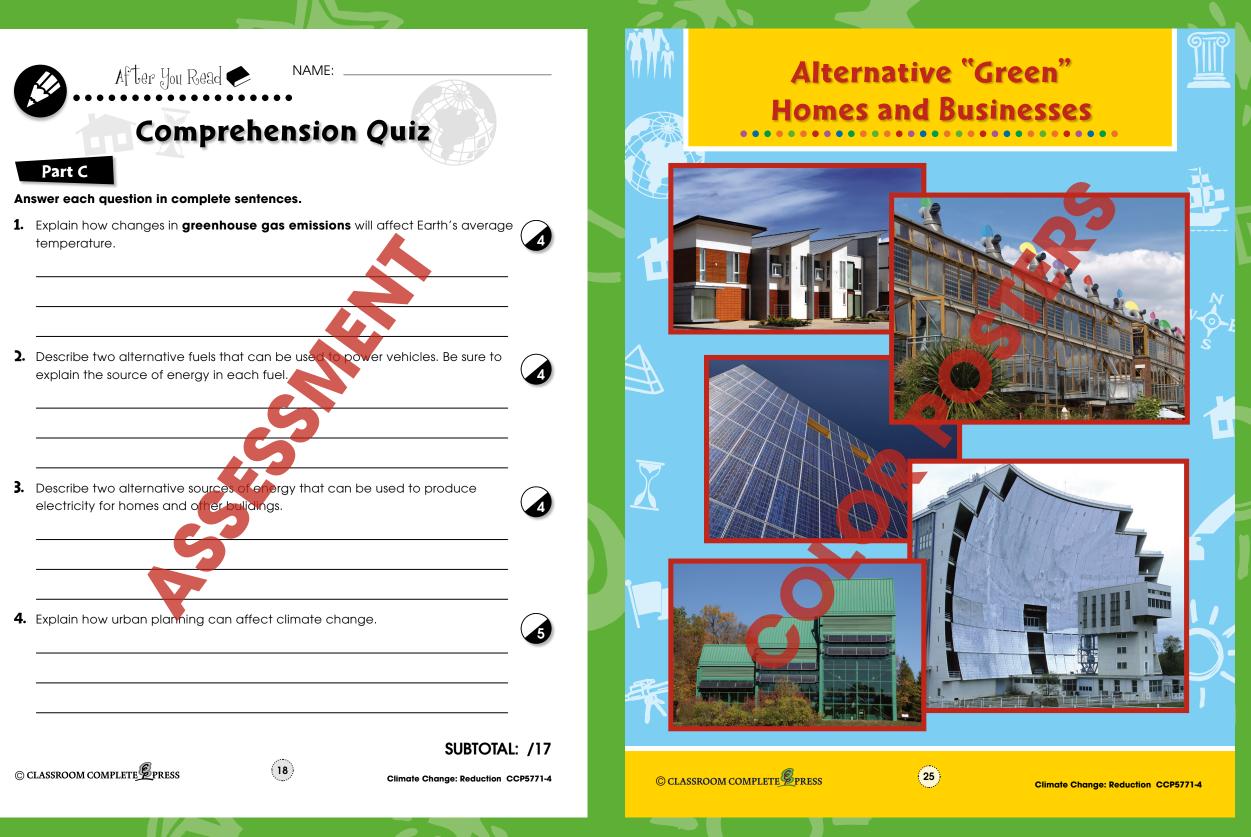
Word Search Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards. alternative fuels emissions manufactured solar fossil fuel Masdar lar cells fuel cell negative feedback transportation hybrid pollutants rbine hydroelectric positive feedback urban hydrogen renewable wind R P N O I T A T R O P S N A R T ES C N E G A T I V E F E E D С κA PYLOOPRACAN M A S E S N OFLBRRNTAONIOV Е o c F
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NAME:

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NAME:

Industry

Δ

a) Packaging takes energy to produce.

b) Recycling takes less energy than using raw materials.

4. Answer each question with a complete sentence.

After You Read 🌪

a) Explain why choosing products with less packaging can help lower greenhouse gas emissions.

b) Explain why recycling can result in lower greenhouse gas emissions.

Research

5. Learn more about the life cycle of a product. Choose a manufactured product you use in your everyday life. Then, research the life cycle of your product. From getting the raw materials to disposing of the product after its

- useful life. Use the Internet or library resources. Find out how your produ through each stage of its life cycle.
 - What are the raw materials? How do people get t How are the raw materials made into the product? Where are the factories that make the product? What are the main processes involved?
 - What kinds of packaging are usually used for the product? How is the ٠ packaging produced?
 - How is the product shipped?
 - How is the product disposed of after its use? Are any special steps ٠ needed to dispose of the product safely?

Create a poster or chart. It should show each step in the life cycle of your product. Make a note of which steps result in greenhouse gas emissions.

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ANSWER KEY





NAME:

Industry

Reading Passage

hink about all of the things you use every day. These things were most likely **manufactured**. This means they were made by people. Pens, desks, computers, refrigerators, music players, even this book you are reading. They all had to be made from **raw materials**. Materials like trees, metal ores and petroleum oil. This process results in a lot of greenhouse gas emissions. The process includes the mining of these materials. It also includes production of goods in factories. The packaging and shipping of goods to stores is the final step in this process.

What are manufactured products?

How can industries lower emissions?

V

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V

Many industries are now working to lower greenhouse gas emissions. Recycling raw materials uses less energy than getting new supplies. Using less packaging also results in less energy use. Some industries are using natural light. Others are using alternative fuels to run vehicles





and provide electricity for buildings. A Carbon Cap-and-Trade Plan puts limits on the amount of greenhouse gas emissions a company is allowed to emit. Some companies encourage their workers to use alternative forms of transportation to travel to and from work. This is done through commuter benefits programs. V

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How to lower greenhouse gas emissions while shopping? What choices could you and your family make?

First, make a list of 5 products you or your family members purchase regularly. Consider items like foods, clothes, school supplies, and cleaning products.

If possible, go shopping with your family when they purchase these products. Bring a notebook. At the store, look at all of the choices for each product. Look at the packaging. Read the labels. Find out where each product is made. Find out whether it contains recycled materials. Write a description of each product.

Now, study your list of product descriptions. Figure out which product choices use fewer fossil fuels to manufacture or grow, to package, and to transport. Create a 4-column chart with columns labeled as below. In the product description column, write a brief, general description of the product category, such as "dish detergent." In the other columns, write the names or descriptions of the brands or choices that are good, better, and best for lowering greenhouse gas emissions. Display your chart in class. Talk about why you classified the products in the different categories.

Product Description	Good	Better	Best







Alternative "Green" Homes and Businesses

