

How Is Our Resource Organized?	5
Bloom's Taxonomy for Reading Comprehension	6
• Vocabulary	6

STUDENT HANDOUTS READING COMPREHENSION

• How Warm Will Earth Get?
• Alternative Fuels
• Transportation
• Industry
• Urban Planning
• Green Buildings
• Masdar City
Lowering Your Greenhouse Gas Emissions
Lowering Your Greenhouse Gas Emissions
 Lowering Your Greenhouse Gas Emissions
 Lowering Your Greenhouse Gas Emissions Hands-on Activities, Writing Tasks Crossword 16



MINI POSTERS	22)
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6 BONUS Activity Pages! Additional worksheets for your students

- Go to our website: www.classroomcompletepress.com/bonus
- Enter item CC5771
- Enter pass code CC5771D for Activity Pages

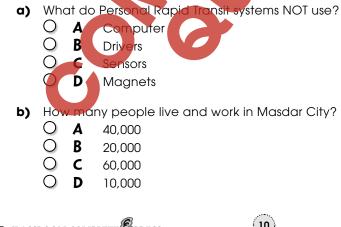








2. Put a check mark (next to the answer that is most correct.







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4. Find out about other sustainable communities around the world.

Use poster paper. Draw a diagram showing all of the processes of the nitrogen cycle. Use the internet or library resources. Find out about how other cities, towns and communities around the world are trying to lower or eliminate greenhouse gas emissions.

Work with your class. Try to find a selection of green cities and towns from around the world. Create a poster fair. Show pictures and descriptions of each city. Invite students from other classes to walk through the fair and ask questions.





Hands-On Activity #3 **Plan a Green City**

You learned about Masdar City. It is one of the only fully-sustainable inde communities. Now, plan a city in your area that will do the same.

First, think about what you would like your city to contain. Ask yourself the following questions:

- What kinds of structures will people live in?
- Where will people go to school and work?
- How will people buy the things they need every day? Like food and clothing.
- How will people get around in the city?
- Where will people go to have fun?

Then, think about the needs of a city in the type of environment where you live. Ask yourself the following questions:

- What is the weather like? Will people need heat? Will they need cooling? Will they need protection from storms?
- What alternative energy resources are available? Does your region get enough sunlight to use solar power? How about wind energy? Is there a source for hydroelectric power?
- How can your city lower its nee for power so that alternative sources of energy will be enough? People will need less fuel and electricity. What are some urban planning choices you could make?

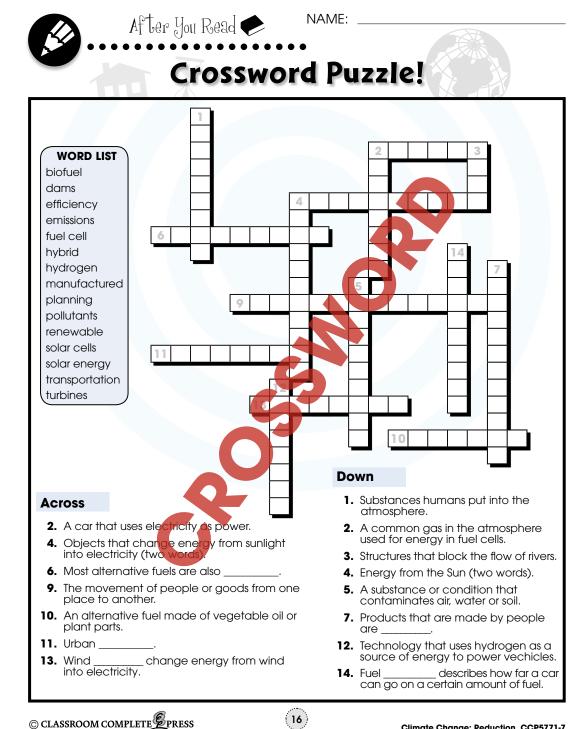
Now, build a model of your city. Start by creating a map. Mark the locations of buildings, walkways, public transportation, parks, and any other features you are including in your city. Th n, create a three dimensional model based on your map. You may wish to visit your local planning department. See how urban planners build models. Use any kinds of materials, like cardboard, clay, wire, balsa wood, sand, aluminum foil, and miniature figurines. Paint the model where appropriate.

Finally, display your model in the classroom. Talk about the features of your city that will lower or eliminate greenhouse gas emissions and waste. Talk about the daily life of people living and working in your city. Invite your classmates to ask questions.

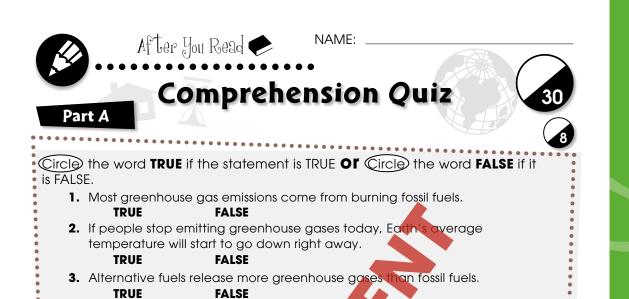
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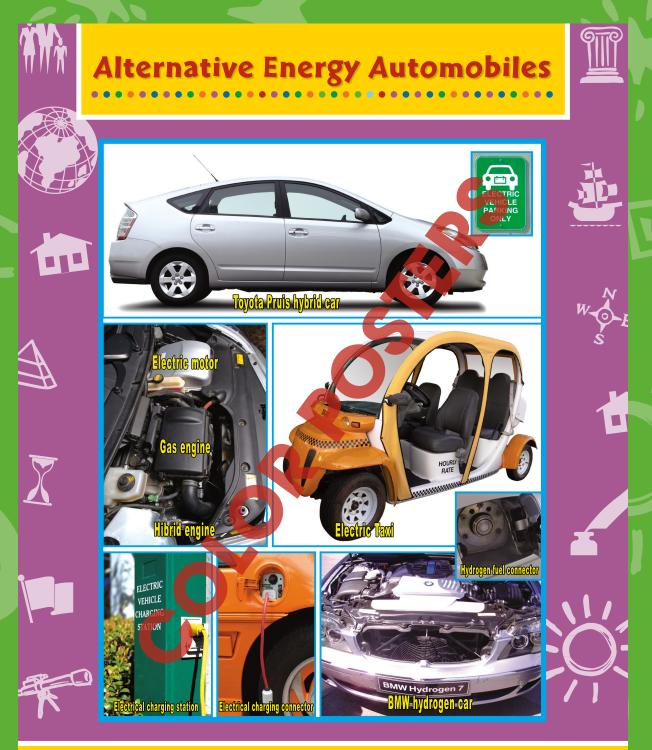
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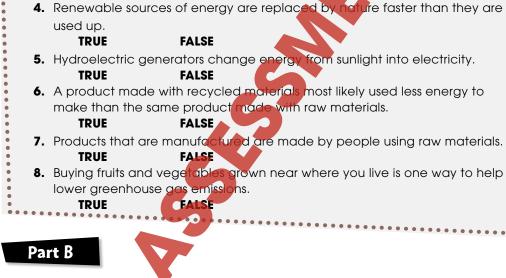
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List five transportation choices that result in less greenhouse gas emissions than driving individual vehicles.

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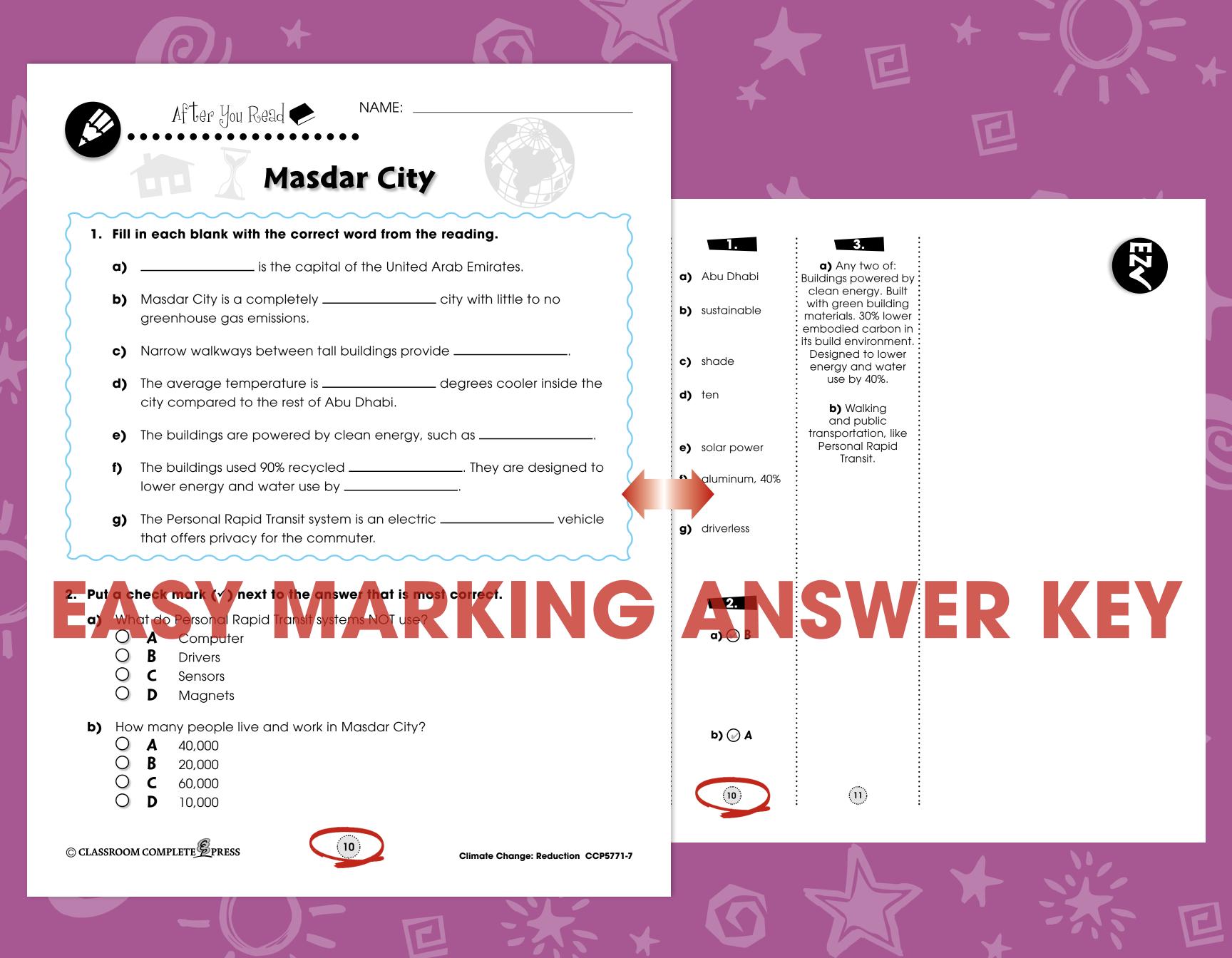
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Masdar City



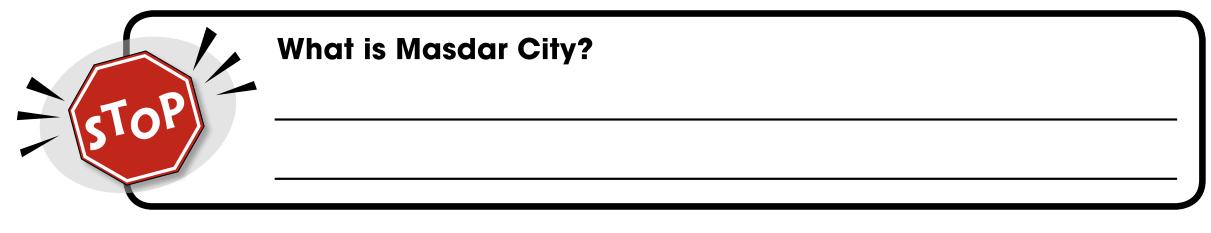
Il around the world, industries, city planners, and leaders

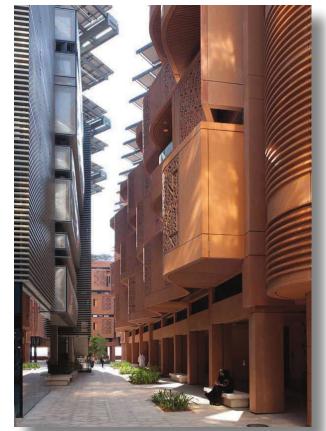
are looking for ways to lower greenhouse gas emissions. They are working to help limit climate change. In Abu Dhabi, the capital of the United Arab Emirates, the Masdar City project has accomplished this task. Masdar City is a completely **sustainable** city



United Arab Emirates

with little to no greenhouse gas emissions. The strategically-placed city is only minutes away from Abu Dhabi International Airport. It is home to more than 40,000 people, and is still growing. Slowly, one neighborhood at a time will be added to the city. Eventually, over 90,000 people will live and work within the city.





How does the city thrive in the harsh desert environment?

The city consists of narrow walkways between tall buildings. This traps the wind and provides shade. The average temperature is 10 degrees cooler inside the city compared to the rest of Abu Dhabi. The sun is captured using solar power plants. This **solar energy** is converted into electricity and used to power the city.





Shade created by solar-panel-topped buildings.



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14









