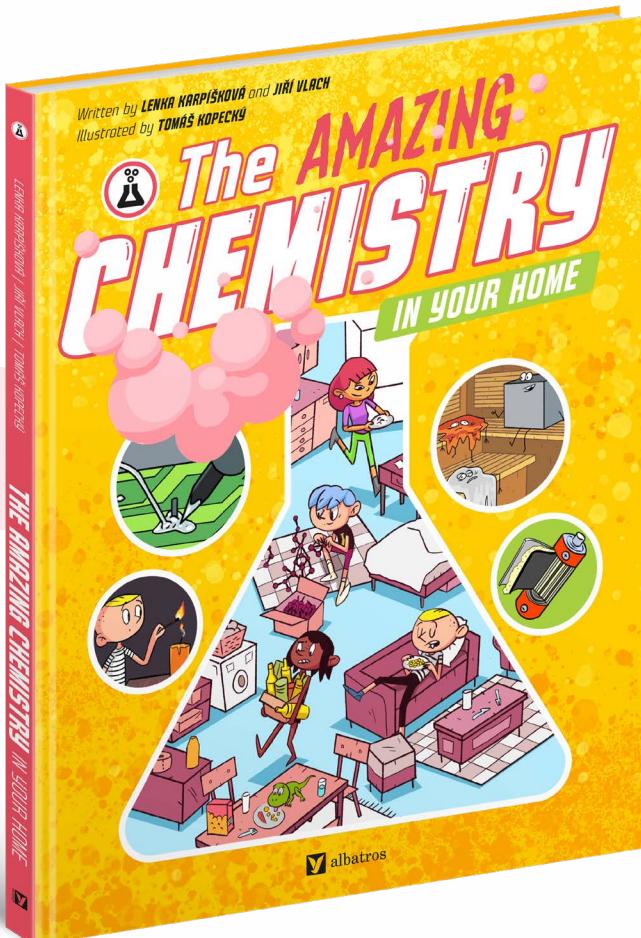




albatros

## THE AMAZING CHEMISTRY IN YOUR HOME

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## GUIDE FOR TEACHERS

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**Curriculum:** Science, Technology, and Innovation; Properties of Matter; Matter and Its Interactions; Chemical Reactions and Change; Cause and Effect; Reading Informational Texts

● AGES 9-12

● ISBN: 9788000075723

● GR: W

● GRADES 4-7

● LEXILE LEVEL: 840L

● AR: 6.1

# BEFORE READING

## Essential Questions

1. What is chemistry?
2. Where do we see chemistry in our homes?
3. What role does it play in making our homes comfortable, safe, and functional?
4. Why is it important to understand the chemistry of everyday life?
5. What connections exist between the chemistry at home and the natural world outside?

## Discussion Questions

What comes to mind when you hear the word chemistry?

Where do you think chemistry happens in your daily life?

Look at the cover of the book. What kind of text do you think you will be reading?  
Is this a fiction or nonfiction text? How do you know?

What are some things you notice on the cover of the book?

According to the table of contents page, where are the different places in your home where chemistry can be found?

Which of these places are in your home? Which are not?

Are there some spaces in your house that were not listed?

Turn to the page with the Periodic Table of Elements. Do you recognize any of the elements from your everyday life?

What is a glossary? How might a glossary help you understand the text better?

Do you have any questions?

# DURING READING

## Chemistry Discoveries

As you read through each chapter of this text, list the places that chemistry was found in each room with a short description of what you learned.

Room \_\_\_\_\_

<b>CHEMISTRY</b>	<b>DESCRIPTION</b>

# DURING READING

What is one surprising thing you learned about this room?

What everyday object in this room works in a way you never noticed before?

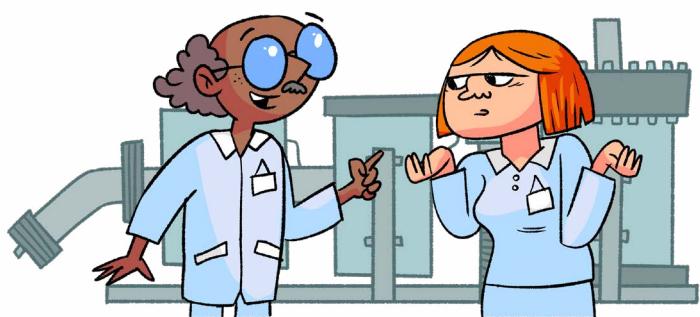
What new vocabulary did you encounter? Explain it in your own words.

What safety tips did you learn that apply to this room?

How do you see or use this chemistry in your own home?

How might understanding this chemistry help people in everyday life?

Was there anything confusing that you'd like to learn more about?



# AFTER READING

## Discussion Questions

Now that you've read the text and learned about chemistry, go back to look more closely at the illustrations for each section. Is there anything you're noticing now?

How did the illustrations help you understand the chemistry concepts?

What questions do you still have about chemistry?

Which experiment would you like to try?

Why do you think it's important to understand the science behind everyday objects?

Can you think of another place in your home (not mentioned in the book) where chemistry might be happening?

What chemistry did you encounter today that you didn't even realize until you read this book?

## Helpful vs. harmful

Work with a partner or group of students to pick one room to focus on. Create a poster that is separated into two sections titled "Helpful vs. Harmful." Work with your classmates to teach others about all the chemistry that can be found in that room that can be helpful and harmful. Be sure to include drawings, labels, and safety tips.



# AFTER READING

## Cause and Effect

Cause and effect is the relationship between two things when one thing makes something else happen.

Go back to reread some chapters that you'd like to revisit. Use the information you've learned to think about different examples of cause and effect in each room.

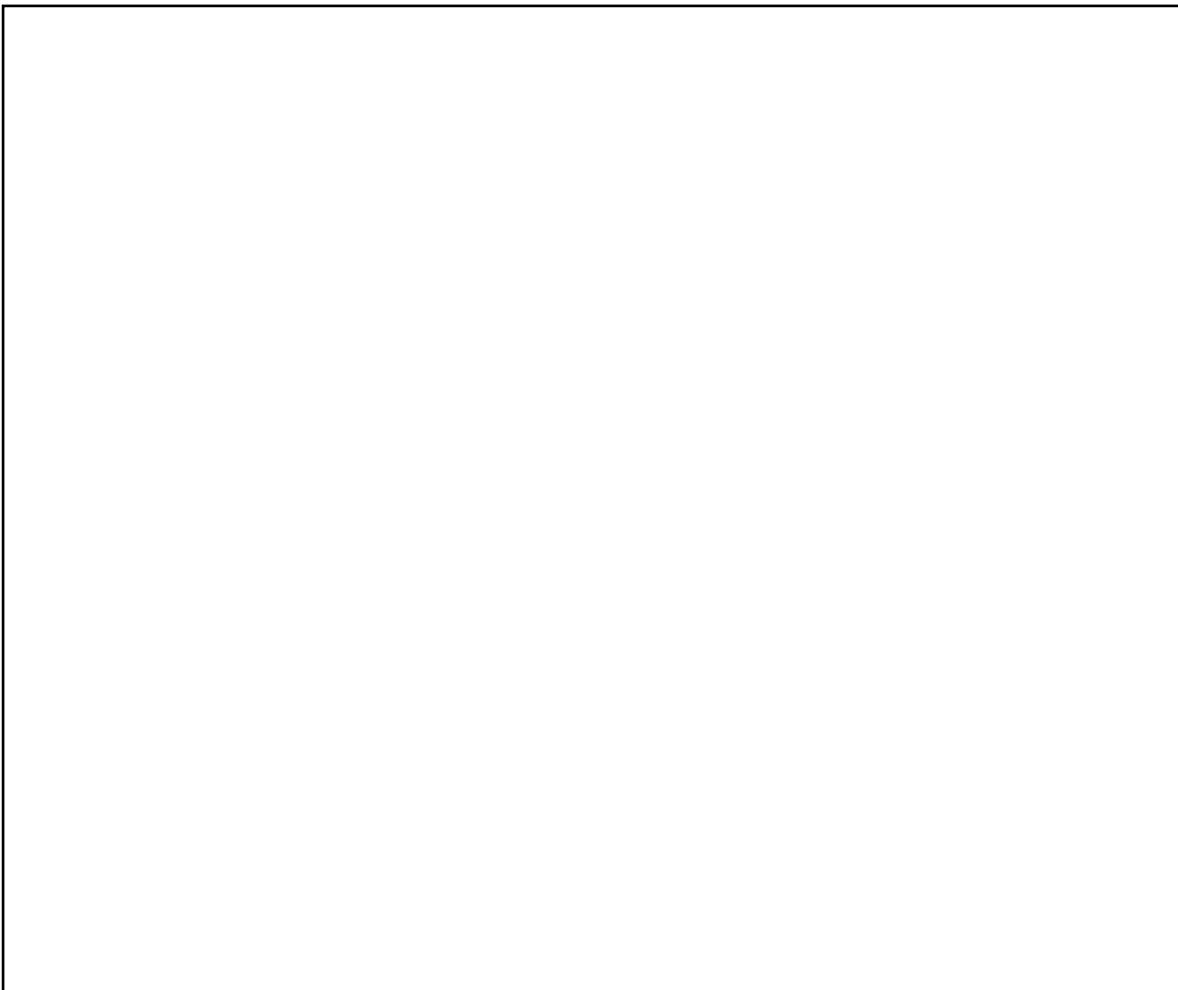
Room/ Chapter	CAUSE Why Does It Happen? (Chemistry Explanation)	EFFECT What Happens as a Result?
Kitchen	When we cut onions, the chemicals released combined with the air transforms into a new chemical that gets into our eyes.	Our bodies release tears so we will cry until all the nasty stuff is gone from our eyes.
Bedroom		
Dining Room		
Living Room		
Bathroom		
Other: -----		

# AFTER READING

## Chemistry in Your Home

Draw a diagram of a space in your own home. You may choose a place that was featured in the text or focus on a place that they missed. Be sure to use diagrams and labels, just as the author did in this text.

Using what you've learned about physics and what you know about your surroundings when you are in school, create an extension of the book you just read! Use text features such as illustrations and text boxes to describe where physics can be seen in your classroom or school.



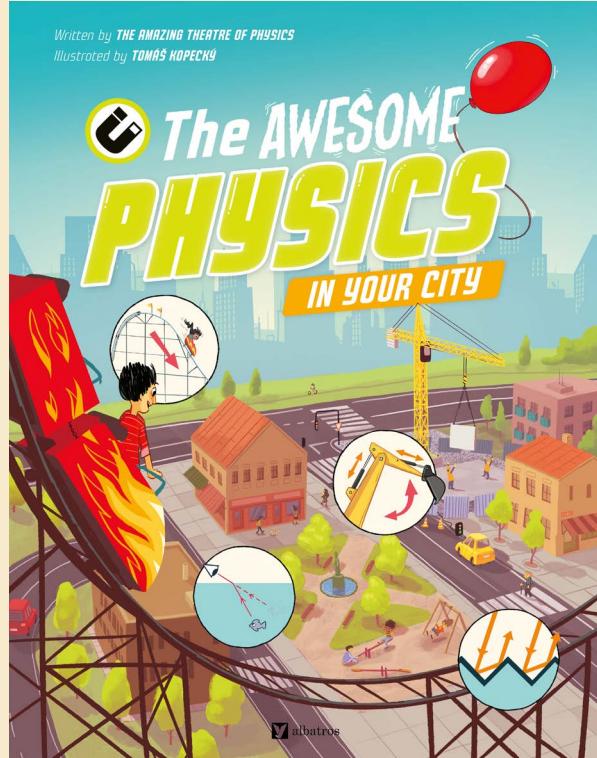
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