



Summary

This book explains that everything is matter and takes up space. It describes and gives examples of the two ways that matter changes: physical and chemical change.

Guided Reading Level	Lexile Level	100th word	Total Word Count
R	725	solids pg.6	581

Standards:

Common Core Language Arts

- Ask and answer questions to demonstrate understanding of a text
- Summarizing the text

Science

- Knows that substances can be classified by physical properties
- Knows that substances can be classified by chemical properties
- Knows that some common materials can be changed from one state to another

Lesson Focuses for Guided Reading (Select lesson focus based on Student's needs)

Writing Craft	Comprehension	Reading Strategies Decoding, & Phonics	Academic Vocabulary
Use a variety of beginning techniques Extend sentences with phrases that tell Create and use text features	Summarizing Information Asking questions Reading on main idea and supporting details	Reading text features Locating known and unknown words	Alchemists bond carbon dioxide chlorophyll compound density dissolve mass matter molecules physical properties viscosity

Lesson

1. Warm up for reading – Students read familiar books.
2. Introduction of **Changing Matter: Understanding Physical and Chemical Changes** – Introduce **Changing Matter: Understanding Physical and Chemical Changes** by looking at the cover photo and starting a discussion about what students already know about matter. Suggested questions to facilitate introductory conversation:
 - *What do you already know about physical changes? Can you give an example of a physical change?*
 - *What do you know about chemical changes? Can you give an example of one?*
 - *Is the picture on the cover an example of a physical change or a chemical change?*
3. Skimming and Scanning **Changing Matter: Understanding Physical and Chemical Changes** – Use this time to introduce or review your lesson focus strategies and/or skills. Suggested skimming and scanning prompts:
 - *Let's look at the Table of Contents. What do you think this book is going to be about? What is happening in the picture?*
 - *Skim the book and look for words that are bolded. Why do you think they are bolded? Have students turn to the glossary and read any unfamiliar words.*
 - *As you read, pay attention to how the author organizes the information through headings and bold print. How does this help you as a reader?*
 - *Have students read the captions as they are skimming and scanning. How do the captions help you to better understand the main idea of this book? Tell us about it.*

4. Reading **Changing Matter: Understanding Physical and Chemical Changes** – Students read independently or with a partner.
5. After reading **Changing Matter: Understanding Physical and Chemical Changes** – Open the conversation with a question that relates to the comprehension strategy of summarizing information. After a brief conversation about the contents of the book move to questions that support your lesson focus. Suggested after reading content connection questions:
 - *Can you summarize the most important details of the book? Tell us about it.*
 - *Can you compare and contrast a chemical and physical change? Can you tell us what is happening during each change?*
 - *Were you surprised to read that there are good and bad chemical changes? Can you give us examples of each? Can you think of other chemical changes you see every day?*
 - *What type of change is happening when a car burns fuel? Tell us about it.*
 - *In your own words, tell us about photosynthesis.*
 Suggested after reading lesson focus prompts:
 - *I noticed (student's name) using (reading strategy) while you were reading. Did it help you with your reading? (Repeat this question to highlight different reading strategies or skills used by students.)*
 - *Did you use the glossary or pictures for information when you were stuck? Tell us about it.*
 - *How did the captions help you understand what you were reading? Tell us about it.*
6. After Reading Application for **Changing Matter: Understanding Physical and Chemical Changes** – Have students complete the reproducible Compare and Contrast with a Venn diagram. Students will compare and contrast a chemical and physical change.

Name: _____

Date: _____

Changing Matter

Directions: Use the Venn diagram to compare and contrast a chemical and physical change. On the left side, write things that only apply to a chemical change. On the right side, write things that only apply to a physical change. Use the middle space to write things that the two changes have in common.

