

BRIDGES™

# MEASURING MATTER



Learn how to  
pick the right  
tool for the job





For teachers' inspection ONLY

**READING****Comprehension Skill:**

Analyze Text Structure and Organization

As you read, look for signal words that help you determine text structures, such as compare and contrast, descriptions, sequence of events, and cause and effect.

**Phonics/Word Study:**

Vowel Diphthong /ou/

As you read, look for words with the vowel diphthong /ou/, like **amount**. This sound in a syllable rhymes with the word **how**.

Look for these text and graphic features

**Text Features**

- Table of Contents
- Introduction
- Sidebars
- Conclusion
- Glossary
- Index
- Information about the author
- Vocabulary words in boldfaced type
- Captions for photos, diagrams, and illustrations
- List with bullets. Page 4
- Checkpoints. Check yourself to see that you understand what you have read. Pages 13, 17

**Graphic Features**

- Photographs
- Charts. Pages 6, 7, 11, 15, 21
- Graph. Page 17

**SCIENCE****The Big Idea:**

This book describes the units we use to measure different kinds of matter. It also explains which tools we use for measuring.

Look for these special information features.

**Content Sidebars**

- **It's a Fact.** Interesting facts about measuring matter. Pages 7, 10, 19
- **Solve This.** Solve these math problems to learn more about measuring matter. Pages 7, 9, 11, 13, 14, 17
- **Everyday Science.** See how science is part of your daily life. Page 3
- **Careers in Science.** Learn about jobs for people interested in measuring matter. Page 5
- **They Made a Difference.** Meet people who were important to the study of matter. Page 20

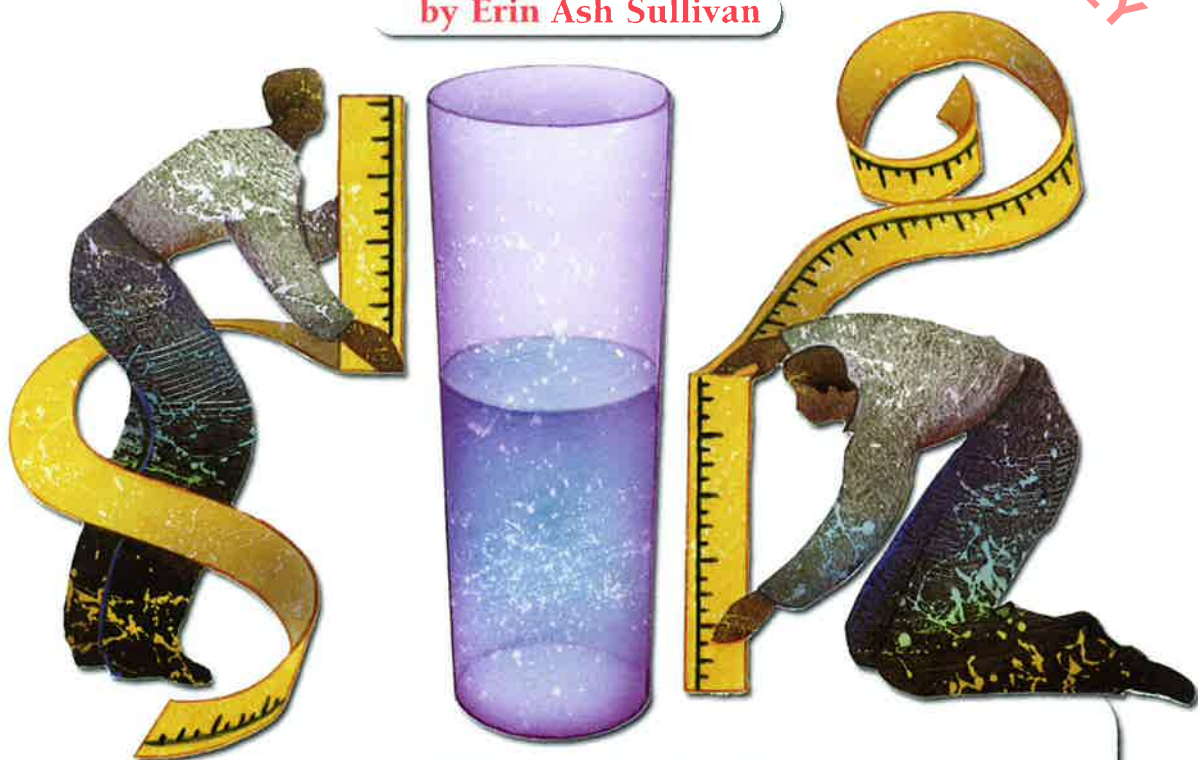
**Content Vocabulary**

customary system	mass	solid
gas	matter	volume
gravity	metric system	weight
liquid	molecule	

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by Erin Ash Sullivan



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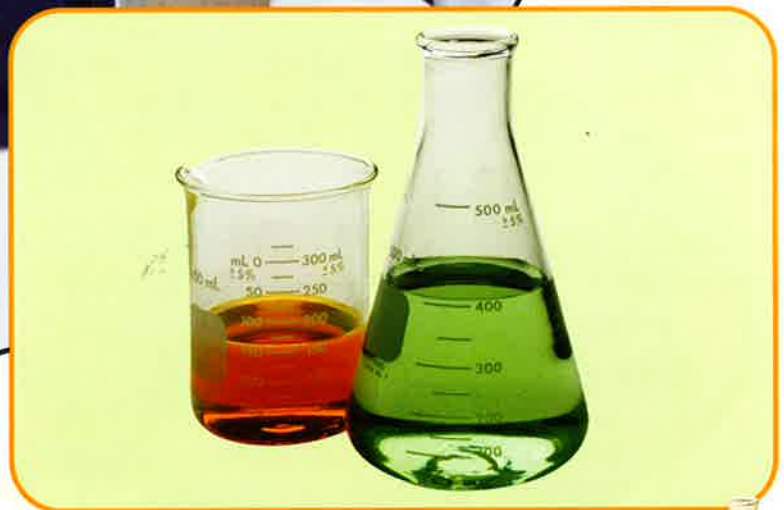


# Pictures To Think About

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# Measuring Matter



# Words To Think About

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## volume

What do you think the word **volume** means in this book?

### Meaning 1

level of loudness  
(noun)

### Meaning 2

amount of space  
an object takes up  
(noun)

### Meaning 3

a book  
(noun)

## gravity

What do you think the word **gravity** means?

Latin:  
gravis  
(heavy)

Latin:  
-ity  
(degree of)



### Characteristics

can be  
anything in  
the world

takes up  
space

?

## **matter**

What do you  
think the word  
**matter** means?

### Forms

gas

solid

?





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# Introduction

**D**o you ever ask yourself, “How much do we have?” Maybe you ask, “How much do we need?” How do we answer those questions? We measure. We use tools to measure. Without these tools, life would be a mess!

Read on to see how to measure things. Learn which tool to use for each job.

Cooks use math ►  
every day. They have  
to measure things.

