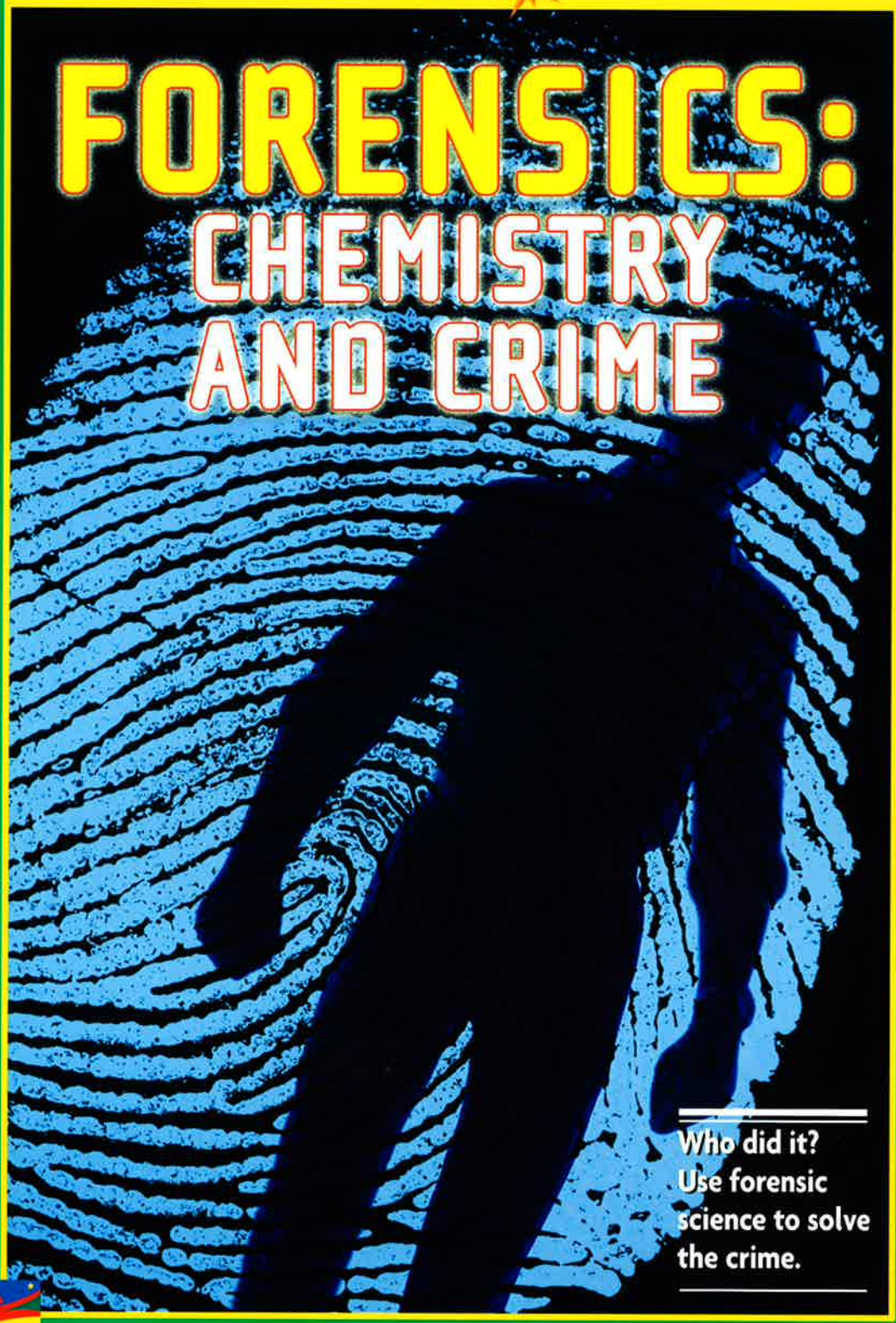
BRIDGES™

FORENSICS: CHEMISTRY AND CRIME



Who did it? Use forensic science to solve the crime.

SARAH JANE BRIAN

Benchmark EDUCATION

SCIENCE
Chemistry
Level 30 N

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 descriptions and cause-and-effect relationships.

Phonics/Word Study:

CVCe pattern

As you read, look for **CVCe** words, like **college**. Syllables with a **CVCe** pattern have a long vowel sound and end in silent **e**.

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
- Checkpoints. Check yourself to see that you understand what you have read. Pages 20, 29

Graphic Features

- Photographs
- Time line. Page 9
- Diagram. Page 30

SCIENCE

The Big Idea:

This book describes how crimes are solved using forensic chemistry.

Look for these special information features.

Content Sidebars

- It's a Fact. Pages 4, 12, 21, 25, 26
- They Made a Difference. Page 15
- Careers. Pages 17, 28
- Math Matters. Page 16
- Historical Perspective. Pages 7, 23
- Everyday Science. Pages 10, 13
- Q & A. Page 18

Content Vocabulary

ballistics
casting
DNA
fiber
fingerprint
forensic anthropologist
forensic science
gene
tool mark
trace evidence

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FORENSICS: Chemistry and Crime

by Sarah Jane Brian

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Pictures To Think About

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Words To Think About

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Characteristics

found at crime scene

can be very tiny

?

trace evidence

What do you think the term **trace evidence** means?

Examples

drop of blood

fiber from clothing

?

casting

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

Meaning 1
throwing a fishing line (verb)

Meaning 2
finding actors for a play or movie (verb)

Meaning 3
a form made by pouring plaster into a mold (noun)

Read for More Clues
ballistics, page 22
casting, page 21
trace evidence, page 3

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ballistics

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

Who are **ballistics** experts?

- scientists
- ?
- police

What do **ballistics** experts study?

- gun barrels
- ?
- bullet holes



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INTRODUCTION

A burglar sneaks up to a dark house. The burglar makes shoe prints in the mud. He breaks a window. As he climbs inside, he grabs the ledge. He leaves **fingerprints**. He also cuts his hand on the broken glass. Drops of blood fall to the floor.

Fingerprints and shoe prints are clues. Broken glass and blood are also important clues. **Forensic science** (fuh-REHN-zihk SY-uhns) is the study of clues. Forensic experts find and study these clues. They use these clues to solve crimes.



▲ forensic evidence

