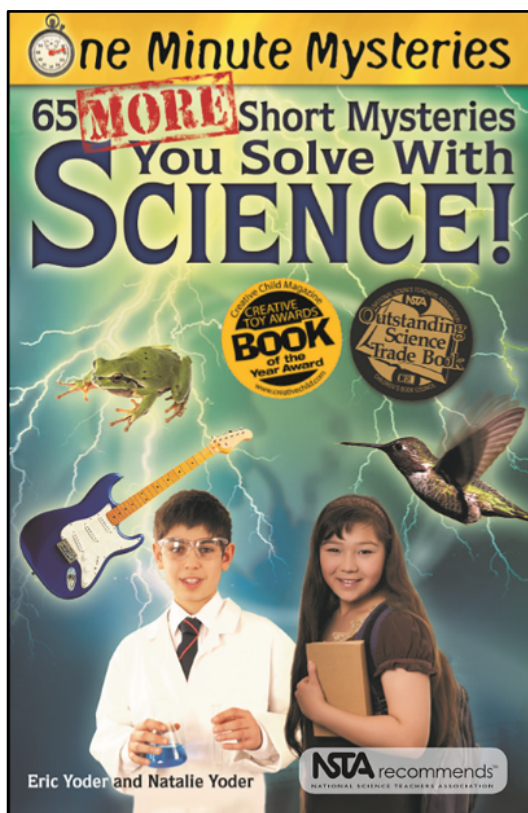


One Minute Mysteries: *65 MORE Short Mysteries You Solve with Science!*

By Eric and Natalie Yoder
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Ages 8-12 | Grades 4-8



These brainteasers keep you engaged and eager to learn more! These mysteries have a clever twist—you have to be a super sleuth, tapping into your science wisdom and critical thinking skills to solve them. Each story takes just one minute to read and challenges your knowledge in a variety of science disciplines. Written by the same father-daughter team that brought you the award-winning *65 Short Mysteries You Solve With Math!*, this entertaining and educational book is great for kids, grown-ups, educators and anyone who loves good mysteries, good science, or both!

This book of science mysteries addresses one of the main themes in NGSS which is to develop the inquiring mind. Many of the mysteries are related to the standards and can be used to introduce content topics.

Articulated to the **National Science Education Standards**.

Science curriculum standards were identified by Joan Wagner.

Joan Wagner is the Director of Focus on Learning, a science education consulting firm, as well as a former president of the Science Teachers Association of New York State. She provides professional development for K-12 science teachers. Joan is also an author of four science books and numerous articles for national, state and regional journals and newsletters. She can be reached at Joan@ScienceNaturally.com.



Sparking curiosity
through reading

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Summary and Articulation of Next Generation Science Standards

Supports Science and Engineering Practices

The reader analyses and interprets data
Constructs explanations and designs solutions
Develops and uses models

Content Standards

MS-LS1-2: Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function

LS1.A: Structure and Function

LS1.B: Growth and Organization

LS1.C: Organization for Matter and Energy Flow in Organisms

MS-LS1-5: Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.

MS-LS2-5: Evaluate competing design solutions for maintaining biodiversity and ecosystem services.

LS4.C: Adaptations

MS-ESS1-3: Analyze and interpret data to determine scale properties of objects in the solar system.

ESS1.B: Earth and the Solar System: Explanation for seasons, eclipses, tides, etc.

MS-ESS2-1: Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.

MS-ESS2-2: Construct an explanation based on evidence for how geo-science processes have changed Earth's surface at varying times and special scales.

ESS2.A: Earth's Materials and Systems

ESS2.C: The Roles of Water in Earth's Surface Processes

ESS3.D: Global Climate Change

MS-ESS2-5: Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.

MS-PS2: Motion and Stability: Forces and Interactions

MS-PS4: Waves and Their Applications in Technologies for Information Transfer

PS3.A: Definitions of Energy

PS3.B: Conservation of Energy and Energy Transfer

MS-PS1-2: Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.

MS-PS1-4: Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.

PS1.A: Structure and Properties of Matter

MS-PS2: Motion and Stability: Forces and Interactions

MS-PS2-3: Ask questions about data to determine the factors that affect the strength of electric and magnetic forces.

MS-PS4-2: Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.

PS4.A: Wave Properties

MS-LS4-6: Use mathematical representations to support scientific conclusions and design solutions.

Note: This book also strongly supports the Language Arts and Science component of the Common Core State Standards/Reading for Science.