Science, Naturally!
725 Eighth Street, SE
Washington, DC 20003
Toll-Free 1.877.752.8977
Tel: 202.465.4798
Fax: 202.546.2356
Info@ScienceNaturally.com
www.ScienceNaturally.com

Are you looking for ways to expand and extend your STEM curriculum?

Please read the attached sample grant proposal.

Together, we can find a way to have our work support yours!

- Do you have PTA/PTSA/PTO funds you can tap into?
- Do you have Title I funds you can use for STEM enrichment products?
- Do you have STEM funds available for supplemental materials?
- Do you have library funds that can be used for science-through-literature and/or math-through-literature titles?
- Do you work with local foundations, clubs or organizations (e.g. Kiwanis, Rotary, etc.) eager to support your programs?
- Do you work with national foundations looking for innovative ways to promote STEM education?

If so, read on! This sample grant proposal may give you a vehicle for bringing hundreds of books into your program.

This STEM Sample Grant Proposal is available in electronic form at www.ScienceNaturally.com. To discuss ways to partner with us, contact Dia Michels at Dia@ScienceNaturally.com.

For more information on our Sample Early Childhood Book Grant Proposal, go to www.PlatypusMedia.com or contact Dia Michels at Dia@PlatypusMedia.com.

EXECUTIVE SUMMARY
STEM FOUNDATION GRANT PROPOSAL

Looking for great math and science trade books for your kids? Our STEM Foundation Grant Proposal may be the answer!

There are times when the obstacle to acquiring quality science, technology, engineering and math (STEM) support materials is lack of funding. But, more often than not, there are sources of money available. The real barrier, in most cases, is a lack of staff and/or time to generate funding requests.

With this in mind, we have developed much of the necessary paperwork to create a funding request for supplemental STEM materials. Just cut and paste from our STEM Foundation Grant Proposal to explain and justify the acquisition of our quality math and science trade books at extraordinary discounts.

Here's how it works. In this Proposal, we have provided the following:

I. Background information on the U.S. crisis in math and science education,
II. Ideas on how and where to secure funding, such as:
    * PTA/ PTSA/ PTO resources
    * STEM grants
    * Title 1 funds
    * Library monies for science/math-thru-literature materials
    * Local clubs or organizations (e.g. Kiwanis or Rotary)
    * Community, regional and national foundations
III. Ways to use our books, including:
    * Extending Learning Opportunities (ELOs)
    * Incentive-based rewards for students
    * Expansion of classroom and school libraries
    * Tools for preventing downtime
    * Book Fair and other fundraiser resources
IV. Sample Budget, showing funders how much they get for their money,
V. Articulation of how each book correlates to the national standards,
VI. Information about programs that have used the Proposal successfully.

Science, Naturally offers **discounts of up to 70%**, with quantity purchase, to schools and other groups involved in STEM education.

Our award-winning trade books are the perfect way to expand and enhance your classroom curricula and our discounts cannot be beat. **All our titles are NSTA Recommended**, and the content in each corresponds with the national math and science standards.

Our STEM Foundation Grant Proposal works! Call us at 202.465.4798 to discuss working together. Full Proposal and Summary documents are at **www.ScienceNaturally.com.**

Table of Contents

SCIENCE & MATH BOOK GRANT REQUEST

[Edit and modify this boilerplate document to create a grant proposal to acquire books for your program]

I. THE NEED —Science & Math Education

It's no secret—scientists, educators and government experts agree there is a general lack of public understanding of science. Educators and employers are worried that too few Americans have functional literacy in math, science, technology and engineering. In a recent poll, just 26% of Americans believe they have a good understanding of science fully. 44% couldn't identify a single scientist, living or dead, whom they'd consider a role model for the nation's young people.

On a recent round of international tests, U.S. students rated below average in math and science literacy. Not only do fewer of our students understand the intricacies of science and math, but very few of America's youth are preparing for careers in math and science.

In 2009, the reading achievement gap between eighth-grade students in low-poverty versus high-poverty schools was 34 points on a 500-point scale, and the mathematics achievement gap was 38 points.

How do we get our children *interested* in these subjects? How do we show kids that in real life, beyond the classroom, math and science are all around us? How do we explain the mysteries of math and science in ways that are exciting and easy to understand?

President Obama is putting his money where his mouth is. With his increasing commitment to Science, Technology, Engineering and Mathematics (STEM) education, groups promoting STEM are now in the national spotlight. His "Educate to Innovate" campaign is further proof of his commitment to math and science literacy in today's youth.

The new annual World Science Festival in New York City and the upcoming first annual National Science and Engineering Festival in Washington, D.C. are evidence of a national awareness that science and math are priorities—and that we need to excite our kids about these subjects at a young age.

II. THE PLAYERS—Working On the Front Lines

A. About _____ (your program)

[Insert information here about your organization]

Tell us…

- The name and age of your program
- The ages of the students with whom you work
- How your kids currently perform in math and science
- What your educational philosophy is

B. About Science, Naturally!

Science, Naturally! is an independent book publishing company founded by Washington, D.C. resident, parent and community activist Dia L. Michels. Our tagline is, "Bridging the gap between the blackboard and the blacktop." Our goal is to create fun and accurate science and math materials that help kids connect the classroom to real life. Our books have received the NSTA Recommends designation, have been featured on National Public Radio's Science Friday, and have won numerous education and parenting awards.

Although we are not a non-profit organization, we have worked with many schools, after-school programs, camps and clubs to support their efforts in math and science literacy. Our goal is to partner with organizations like yours to support the work you do.

We are a small business with a great social consciousness. We are constantly seeking opportunities to get our materials to the children who will benefit most from them. As part of our commitment to supporting America's youth, we have established a Foundation Grant Program. Under this program, we offer **discounts of up to 70%** to schools and non-profit science and math education groups. We know of no other business that offers such award-winning materials to children at such a substantial discount.

III. The Importance of Trade Books in Supporting the Curriculum

Textbooks provide a tremendous amount of information, but they are only one piece of the puzzle. Articles, films and trade books are routinely used to expand the curriculum. Educators embrace materials that support learning across the curriculum, such as social studies materials that include science education, and language arts content that incorporates mathematics. Science Naturally's books have been recommended by reading specialists, special education instructors, librarians, and by math and science instructors.

See *Appendix 2* for more information on the awards and acclamation Science, Naturally's books have received.

Science, Naturally! currently offers a number of books for upper-elementary and middle school students. We also have supplementary resources, such as Activity Guides, Hands On and Demonstration Handouts, Text Booklets and more. Additional titles – both fiction and non-fiction – are in development and will be available soon. Current titles include:

- *One Minute Mysteries: 65 Short Mysteries You Solve With Science!*
- *One Minute Mysteries: 65 Short Mysteries You Solve With Math!*
- *101 Things Everyone Should Know About Science*
- *101 Things Everyone Should Know About Math*
- *If My Mom Were A Platypus*
- *The League of Scientists: Ghost In The Water*

IV. Harnessing Local, Regional and National Resources

Community and school organizations are constantly looking for ways to allocate their funding. By partnering with groups that allocate funds for books, your school district can obtain the funding necessary to utilize our resources. These purchases are easy to justify since our materials parallel and reflect the curriculum, and we show you exactly how they articulate to the standards.

Some places to find funds include:

- PTA/PTSA/PTO resources
- STEM grants
- Title I funds
- Library monies
- Local clubs or organizations (such as Kiwanis or Rotary)
- Community, regional and national foundations committed to supporting science and/or math education

V. Helping Tomorrow's Leaders Today: Ways to Use the Books

[Edit and revise this section to include the options and programs that apply to your organization]

The main goal of providing these titles to your students is to increase their excitement about math and science by engaging them in fun, new ways. Whether they choose to pursue a career in math or science later on, they will have the tools to succeed in any field.

Here are some suggestions of ways to incorporate the books into your program:

Extended Learning Opportunities (ELOs):

Many of the kids attending America's public schools struggle with reading and have experienced limited success in math and science. They lack motivation to reach higher in these subjects because they do not understand how the material connects to daily life.

We will use the grant money to create a demonstration project for implementing math and science enrichment that dovetails and extends existing curriculum. The demonstration project would be based off of extended learning opportunities (ELOs) created around the teaching techniques and curriculum base in the requested science and math titles. While the Science, Naturally! materials will drive the ELOs, resources from Title I and/or No Child Left Behind will be used for part time instructional salaries for teachers to run the ELOs. ELOs could be before school programs, after school programs, and even summer programs. Creating a summer program would also aid in the reduction of Summer Learning Loss.

The goal at the end of the demonstration will be a set of instructional tools, including a detailed curriculum showing how these books can be used in ELOs to help children connect to and extend their classroom curriculum. The demonstration could lead to duplication of the program in other elementary or middle schools.

Incentives for Success:

Our plan is to use the books as incentive rewards. Incentives for performance-based effort can help motivate students to really apply themselves. Rewarding students can lead to academic and behavioral improvements, while sustaining the students' interest. The ability to offer a competitively priced product that is both relevant and useful is very exciting to us. These incentives can be used for successful completion of the annual Science Fair, excellent class participation and/or satisfactory class grades. The affordability of these books means that schools can acquire them for not much more than they spend now on ribbons and trinkets. Giving students a high quality book sends the message that they are worthy of a quality product. These motivational prizes will not only help them in the classroom, but will also help them establish and/or expand their home library.

Classroom and School Library Expansion:

Our goal in obtaining this grant is to enhance classroom libraries for the 3rd to 8th grade math and science rooms, as well as the school library. These books help build skills in reading, problem-solving, science and math with supporting content correlated to our school's math and science standards. Having these books at their disposal will get our kids excited about math and science through creative extensions of existing curriculum with real life applications.

In taking these steps to provide resources that can help students achieve in school, we are ensuring the future of our nation by raising generations of children who will feel confident in the crucial fields of math and science and will carry that knowledge into adulthood.

Preventing Downtime:

The beginning of class can often be down time as students take their seats and the teacher takes attendance. *One Minute Mysteries* and *101 Things Everyone Should Know* can be used to get students on task the moment they enter the classroom. With each entry taking less than a minute to read, these books are perfect Bell Ringers. Teachers around the country have embraced these books for keeping students busy, getting kids' brains warmed up and adding energy to the classroom.

Additionally, students are often inspired to write their own mysteries or science questions, using the books as models.

Book Fair and Other Fundraiser Resources:

Our school holds several book fairs each year. The fairs promote an excitement for reading, while providing a place where kids can easily preview and purchase affordable books to develop their home libraries. We also use these fairs to raise funds to support our school library budget.

Buying quality science and math books at up to 70% off makes it possible to include them at our book fairs, getting them in front of kids and helping to generate needed funds to grow our school library collection and children's personal libraries.

VI. Language Options

All Science, Naturally books today are available in English. *If My Mom Were A Platypus* is available in Spanish as well. We are currently negotiating with companies in Korea, China and Egypt for translations of the book for these markets.

If you need books in a language that is currently not available, we will be happy to work with you to make them available. We can translate and produce any title in any language with a minimum order of 3000 books. If you need a language, please let us know so we can pool requests in order to meet the minimum.

We are excited to offer our books in multiple languages and would be delighted to work with you to make it happen.

VII. Author Visits

Science, Naturally authors live across the U.S. Our authors are now in the Washington, DC metro area, Hightstown, N.J., and Chatsworth, CA. If you are near any of these locations, we would be happy to arrange for an author to visit you at your program. If you are somewhere else, we will be happy to discuss bringing an author to you.

VIII. Incredible Discounts

Small but powerful. That's an adage by which Science, Naturally! operates. Because knowledge is not only power, but a responsibility to be passed on to the next generation of great thinkers. Without the ties of large, corporate publishers, we can offer **discounts of up to 70%.** Our award-winning products speak to our credibility. Our prices demonstrate our commitment to the great thinkers of tomorrow.

10+ books – 40% discount
50+ books – 50% discount
100+ books – 60% discount
250+ books – 65% discount
1000+ books – 70% discount

IX. The Bottom Line

Titles	Copies	Retail	Retail Total	Grant 70% Off*	Grant Price Total
101 Science	200	$9.95	$1,990	$2.99	$597
Test Booklets	100	$2.95	$295	$0.89	$89
101 Math	200	$9.95	$1,990	$2.99	$597
Test Booklets	100	$2.95	$295	$0.89	$89
65 Science	200	$9.95	$1,990	$2.99	$597
65 Math	200	$9.95	$1,990	$2.99	$597
Platypus	200	$9.95	$1,990	$2.99	$597
Subtotal	**1200**		$10,540		$3,162
Handling Fee (3.5%)			$369		$111
Shipping (8%)**			$843		$253
Total			$11,752		**$3,526**

**70% discount applies only to orders of 1000 total titles or more. See discount schedule for pricing on quantities under 1000.*
***Shipping rate only applies within the U.S. Please contact us for international shipping rates.*

X. Contact Information

A. [Insert your organization's contact information here]

B. Science, Naturally!
725 8th Street, SE, Washington, D.C. 20003
202.465.4798
Fax: 202.546.2356

Dia L. Michels, President
Dia@ScienceNaturally.com

Christine Haapala, Chief Operating Officer
Christine@ScienceNaturally.com

APPENDIX 1

Successful Foundation Grant Recipients

Schools, camps and other educational programs have used our amazing discount prices to buy large quantities of our books for their facilities. Here are some of the programs that have purchased books for their students using our bulk pricing.

Watauga Middle School, Watauga, TX

Watauga Middle School is a Title I school, which serves a high population of at-risk and economically disadvantaged students. The Title I funds that they had were not earmarked for specific disciplines, but since science and math were their lowest performing areas, grant requests in those areas were given priority consideration. According to the school, the textbooks they use for math and science are not engaging reading, and are often over the reading level of their students, so having something fun for the students to read in math and science is a huge benefit. They are planning to incorporate the Science, Naturally! books into their science classes' interactive journaling campus-wide.

Prince George's County Public Schools, Prince George's County, MD

Prince George's County Public Schools used grant funds to purchase 1000 copies of Science, Naturally! titles. These books were used in two consecutive years as gifts to students who qualified to participate in the Kids for Science STEM fair. Each participant received a copy the morning of the fair and enjoyed it throughout the school day and at home.

Palomar College, GFSPS, San Marcos, CA

This summer camp for underprivileged kids in San Diego bought 1100 titles using state and federal funding. They are used to inspire the kids about math and science and to stimulate camp activities. Participants were able to keep the books at the end of the program.

APPENDIX 2
Titles Available

101 Things Everyone Should Know About Science
By Dia L. Michels and Nathan Levy

Science is all around us and affects almost every aspect of our lives, yet so many of us wish we understood it better. Scientists, educators and government experts agree that there is a general lack of public understanding of science. *101 Things Everyone Should Know About Science* makes smart parents, smart students and science savvy people of the rest of us.

> *[The authors] have created a book that could be called 'How to Learn Science without Really Trying!' With over 100 questions on things we've all wondered about, they provide answers in a succinct, cleverly written and understandable format. An authoritative overview of science, this book fills an empty niche and should be on everyone's book shelf!*
> – Katrina L. Kelner, Ph.D., *Science Magazine*

*NSTA RECOMMENDS * TEST BOOKLET AVAILABLE!*

ISBN: 0-9678020-5-9
Ages: 8-12
160 Pages, 2006
$9.95, paperback
5.5" x 8.5"

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101 Things Everyone Should Know About Math
By Marc Zev, Kevin B. Segal and Nathan Levy

Math is a critical part of our everyday lives; we use it dozens of times daily. and wish we understood it better. The second title in the "101 Things Everyone Should Know" series, this book makes understanding math easy and fun! Using an appealing question and answer format, this book is perfect for kids, grown-ups and anyone interested in the difference between an Olympic event score of 9.0 and a Richter scale score of 9.0.

> *Being comfortable with math makes everyone smarter consumers and more rational decision makers. Most people don't realize how much math is used in making everyday choices.* 101 Things Everyone Should Know About Math, *complete with real-life scenarios, shows kids that math is everywhere. This is a wonderful book for making complex topics approachable and helping readers discover the fascinating world of math!*
> – Rachel Connelly, Ph.D., Bion R. Cram Professor of Economics, Bowdoin College, Brunswick, ME

*NSTA RECOMMENDS * TEST BOOKLET AVAILABLE*
ENDORSED BY NUMEROUS PARENTING AND TEACHING EXPERTS!

ISBN: 0-9678020-3-2
Ages: 11-15
208 Pages, 2010
$9.95, paperback
5.5" x 8.5"

One Minute Mysteries: 65 Short Mysteries You Solve With Science!

By Eric Yoder and Natalie Yoder

**** OUR BEST-SELLER! ****

This National Science Teachers Association (NSTA) recommended title makes science fun! These short mysteries have a clever twist–you have to tap into your science wisdom to solve them! Each story, just one minute long, challenges your knowledge in earth, space, life, physical, chemical, and general science. This book is the perfect solution for any kid, parent, or educator who loves good mysteries, good math, or both!

> *Parents and kids alike will be challenged by these stimulating, real-world science mysteries.* One Minute Mysteries: 65 Short Mysteries You Solve With Science! *is a great way to grow a young scientist – or improve an old one! This book belongs in every school and every home.*
> – Julie Edmonds, Co-Director, Carnegie Academy for Science Education

*NSTA RECOMMENDS * FEATURED IN SCIENCE NEWS!*

ISBN: 0-9678020-1-6
Ages: 8-12
176 Pages, 2008
$9.95 paperback
5.5" x 8.5"

One Minute Mysteries: 65 Short Mysteries You Solve With Math!

By Eric Yoder and Natalie Yoder

These fun mysteries are each one minute long and have a unique twist—you need to tap into your mathematical wisdom to solve them! Plus, they will help you figure out the greatest mystery of all: why you actually need the skills you learn in math class! Written by the same father-daughter team who brought you the award-winning *One Minute Mysteries: 65 Short Mysteries You Solve With Science!*, this entertaining and educational book is easy to use at home, in school, or in the car.

> *Math truly is the star of* One Minute Mysteries: 65 Short Mysteries You Solve With Math! *The [authors] have created a multitude of real-life situations with solutions that would make Encyclopedia Brown jealous. Parents and students will enjoy the fun situations, and math teachers will appreciate the serious math behind the solutions.*
> – Clay Kaufman, Co-Director, Siena School, Silver Spring, MD

ISBN: 978-0-9678020-0-8
Ages: 11-15
178 Pages, 2010
$9.95 paperback
5.5” x 8.5”

If My Mom Were a Platypus: Mammal Babies and Their Mothers

By Dia L. Michels, Illustrations by Andrew Barthelmes

Mothers and babies, babies and mothers. The animal kingdom offers a special fascination for children because so many of the cozy rituals they share at home are echoed in nature. With this captivating approach to biology, middle graders learn how animals eat, sleep and learn from birth to maturity.

> If My Mom Were a Platypus *is an entrancing children’s book covering all sorts of animal babies—platypus, koala, lion, orangutan, whale, shrew and more. The beautifully-illustrated text pulls in children by pretending they are the baby.* If My Mom Were a Platypus *describes in detail how different babies eat, learn, grow and mature. This fact-loaded book delights both adults and children and is extraordinarily hard to put down. Even the ending is superb. Includes glossary and index and highlights endangered or threatened species. Activity guides are available at PlatypusMedia.com. Perfect for school or home use. Ages 4 to adult.*
> – Dr. Kathleen Kain, Science Educator, *The Science Spiders Newsletter*

*NSTA RECOMMENDS * TEACHER'S GUIDE AVAILABLE!*
HANDS-ON DEMONSTRATION INFORMATION AVAILABLE!
AVAILABLE IN SPANISH!

ISBN: 1-930775-19-9
Ages: 8-12
64 Pages, Full Color. 2005
$9.95 paperback, $16.95 hardback
10" x 7"

COMING FALL 2011:

The League of Scientists: Ghost in the Water
By Andy Kaiser

A new blended fiction science mystery series!

Meet The League of Scientists—five middle-school kids who have the self-appointed responsibility of solving mysteries in their quiet town of East Rapids, MI. Bullied by his arch nemesis, Dowser, sixth-grader John Hawkins feels quite alone in his new school until his interest in robotics lands him an invitation to join The League. In *Ghost in the Water*, the first in the new "League of Scientists" mystery series, the newly formed group use their know-how in biology, technology, logic, and chemistry to uncover the secret of the ghost terrorizing the middle school pool and the school's star swimmer, Casey. The League is in a race against time to uncover the truth about the ghost before the big swim meet against their school's rival, West Shore.

TEACHER'S GUIDE AVAILABLE!

ISBN: 0-9700106-2-1
Ages: 9-12
160 Pages, 2011
$9.95 paperback
5.5" x 8.5"

APPENDIX 3

Supporting and Articulating Curriculum Standards

Science, Naturally's trade books are the perfect way to expand and enhance your classroom curriculum. Our books correlate to the math and science standards set out by the Center for Education at the National Academies. Here is detailed information on which standards are specifically supported in these books and how these books support the national curriculum standards. Titles include:

One Minute Mysteries: 65 Short Mysteries You Solve with Science!
One Minute Mysteries: 65 Short Mysteries You Solve With Math!
101 Things Everyone Should Know About Science
101 Things Everyone Should Know About Math
If My Mom Were a Platypus: Mammal Babies and Their Mothers

All 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.

All math curriculum standards were identified by Ali Tribley.

> Ali Tribley graduated from SUNY Plattsburgh with a double major in Mathematics and Education. Her first job was teaching students ages 16-24 at the Hubert H. Humphrey Job Corps in St. Paul, MN. She then moved to teaching 8th and 9th grade math in Minnesota, then New York public schools. She currently teaches 7th grade math and a 7th grade honors class that integrates science, math and technology. She can be reached at Ali@ScienceNaturally.com.

Science, Naturally!
Bridging the gap between the blackboard and the blacktop

1-866-SCI-9876 • Info@ScienceNaturally.com

One Minute Mysteries: 65 Short Mysteries You Solve with Science!
Summary of National Science Education Standards

To facilitate the identification of the standards addressed by each mystery, a code number has been assigned to each standard.

Below is a summary of the standards with their identifying code. For a more detailed description of each standard, go to: http://www.nap.edu/openbook.php?record_id=4962.

Science as Inquiry (I) Standards, K-8
The inquiry standards address the following benchmarks:

- Understanding of scientific concepts
- An appreciation of how we know what we know in science
- Understanding of the nature of science

1I: Abilities necessary to do scientific inquiry
2I: Understanding about scientific inquiry

Physical Science (PS) Standards, K-4

1PS: Properties of objects and materials
2PS: Position and motion of objects
3PS: Light, heat, electricity and magnetism
4PS: Properties and changes of properties of matter
5PS: Motions and forces
6PS: Transfer of energy

Life Science (LS) Standards, K-8

1LS: Characteristics of organisms
2LS: Life cycles of organisms
3LS: Organisms and environments
4LS: Structure and function in living systems
5LS: Reproduction and heredity
6LS: Regulation and behavior
7LS: Population and ecosystems
8LS: Diversity and adaptations of organisms

Earth and Space Science (ES) Standards, K-8

1ES: Properties of earth materials
2ES: Objects in the sky
3ES: Changes in earth and sky
4ES: Structure of the earth system
5ES: Earth's history
6ES: Earth in the solar system

Science and Technology (TS) Standards, K-8

1TS: Abilities of technological design
2TS: Understanding science and technology
3TS: Abilities to distinguish between natural objects and objects made by humans

Science in Personal and Social Perspectives (PSPS) Standards, K-8

1PSPS: Personal health
2PSPS: Characteristics of and changes in populations
3PSPS: Types of resources
4PSPS: Changes in environment
5PSPS: Science and technology in local challenges
6PSPS: Populations, resources and environments
7PSPS: Natural hazards
8PSPS: Risks and benefits
9PSPS: Science and technology in society

History and Nature of Science (HNS) Standards

1HNS: Science as a human endeavor
2HNS: Nature of science
3NHS: History of science

Guide to Content (G) Standards

1G: Systems, order and organization
2G: Evidence, models and explanation
3G: Constancy, change and measurement

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

Articulation of National Science Education Standards

Not your ordinary mystery book, *One Minute Mysteries* makes science fun! These short mysteries have a clever twist–you have to tap into your science wisdom to solve them! Each story, just one minute long, challenges your knowledge in earth, space, life, physical, chemical, and general science. Try your hand at dozens of science mysteries (with solutions included) that will keep you entertained–and eager to learn more!

The format of this book addresses both inquiry science and the nature of science. These standards permeate all of the mysteries presented in this book. In addition, there is considerable articulation of the content standards. Since this book encompasses both elementary and intermediate standards, they are all listed together under a K-8 heading.

Life Science section
Classified Information: 1I, 1LS, 8LS
Food for Thought: 3HNS, 5ES
Bear Scare: 2I, 8LS
The Horse's Fodder: 1LS, 8LS, 7LS
Left in the Dark: 8LS
Bugged by an Assignment: 7LS
It's in the Blood: 8LS
Seed of an Idea: 7LS
Shell Game: 3LS, 8LS
A Question of Identity: 1LS
Turning Over a New Leaf: 1LS, 8LS
The Pupil and the Pupae: 2LS
A Fishy Solution: 4LS, 6PSPS
A Fair Contest: 7LS
Hair Style: 1I, 2I, 1LS

Earth and Space Science section
Cloudy on the Concept: 2I, 3ES
Shadow of a Doubt: 3ES
Freeze Fall: 4PS, 4ES
Time for a Change: 3ES, 6ES
Stars in Their Eyes: 6ES
Rain or Shine: 4ES
Space Ship-Shape: 6ES
Sight at Night: 6ES
In Hot Water: 1PSPS
Sands of Time: 3ES
Falling Foliage: 3ES
The Best-Laid Planets: 2 ES
That Snow Problem: 6ES
Battle of the Bulge: 4PS, 4ES
Taking Directions: 3PS, 3ES

Physical and Chemical Science section
Grass Stained: 4PS
Faded Memory: 4PS
Taken with a Grain of Salt: 4PS
Double Dealing: 3PS
Cabin Fever: 6PS
Pumpkin Patch: 4PS
Thirst for Knowledge: 4PS
Gem Jam: 3PS
Hearing Aide: 2PS, 6PS
Too Hot to Handle: 6PS
Storm Warning: 3PS
Fingering the Culprit: 6PS
Slow Burn: 4PS
It Works Like Magic: 4PS
Hide and Seek: 4PS

General Science section
Needing a Lift: 5PS
Water, Water Everywhere: 6PS
Shocking Surprise: 3PS
Stuck with the Mud: 5PS
Valentine Vexation: 1PS
Language Barrier: 3G
Powerful Argument: 6PS, 1TS
Nothing to Sneeze At: 1PSPS
Lights Out: 3PS, 6PS
Salad Days: 4PS
Bird Watching: 4PS
Raked Over the Coals: 2G
Picture This: 2G, 7LS
Weight Debate: 3G
Alarming Situation: 1T

Bonus Section

Water on the Brain: 1I
Pointing Out the Facts: 3PS
Thrown a Curve: 5PS
The Long Run: 5PS
Occupational Hazards: 9PSPS

101 Things Everyone Should Know About Science
Summary of the National Science Education Standards

Why do you see lightning before you hear thunder? What keeps the planets orbiting around the sun? Why do we put salt on roads when they are icy? What metal is a liquid at room temperature? And the burning question: Why do so many scientists wear white lab coats? Science affects everything—yet so many of us wish we understood it better. Using an accessible question-and-answer approach, *101 Things Everyone Should Know About Science* expands a reader's knowledge, whether they are 8 or 108.

The National Science Education standards are addressed in the book's explanations of each question posed. Science as a human endeavor and the history of science are two standards that are particularly highlighted. Showing children the human nature of science supports an understanding of science as an evolving discipline subject to changes based on new observations and discoveries.

The standards noted below are a compilation of both the K-4 & 5-8 standards, since this book is recommended for ages 8-12.

Science as Inquiry (I) Standards, K-8

The inquiry standards address the following benchmarks:

- Understanding of scientific concepts
- An appreciation of how we know what we know in science
- Understanding of the nature of science

1I: Abilities necessary to do scientific inquiry
2I: Understanding of scientific inquiry

Physical Science (PS) Standards, K-4

1PS: Properties of objects and materials
2PS: Position and motion of objects
3PS: Light, heat, electricity and magnetism
4PS: Properties and changes of properties of matter
5PS: Motions and forces
6PS: Transfer of energy

Life Science (LS) Standards, K-8

1LS: Characteristics of organisms
2LS: Life cycles of organisms
3LS: Organisms and environments
4LS: Structure and function in living systems\
5LS: Reproduction and heredity
6LS: Regulation and behavior
7LS: Population and ecosystems
8LS: Diversity and adaptations of organisms

Earth and Space Science (ES) Standards, K-8

- 1ES: Properties of earth materials
- 2ES: Objects in the sky
- 3ES: Changes in earth and sky
- 4ES: Structure of the earth system
- 5ES: Earth's history
- 6ES: Earth in the solar system

Science and Technology (TS) Standards, K-8

- 1TS: Abilities of technological design
- 2TS: Understanding science and technology
- 3TS: Abilities to distinguish between natural objects and objects made by humans

Science in Personal and Social Perspectives (PSPS) Standards, K-8

- 1PSPS: Personal health
- 2PSPS: Characteristics of and changes in populations
- 3PSPS: Types of resources
- 4PSPS: Changes in environment
- 5PSPS: Science and technology in local challenges
- 6PSPS: Populations, resources and environments
- 7PSPS: Natural hazards
- 8PSPS: Risks and benefits
- 9PSPS: Science and technology in society

History and Nature of Science (HNS) Standards

- 1HNS: Science as a human endeavor
- 2HNS: Nature of science
- 3HNS: History of science

Guide to Content (G) Standards

- 1G: Systems, order and organization
- 2G: Evidence, models and explanation
- 3G: Constancy, change and measurement

101 Things Everyone Should Know About Science
Articulation of the National Science Standards

BIOLOGY QUESTIONS

1) 1LS
2) 8LS
3) 1LS
4) 1LS
5) 1LS
6) 6LS
7) 1LS
8) 1LS
9) 2LS
10) 1HNS; 7LS
11) 5LS
12) 1LS
13) 1LS
14) 7LS
15) 4LS
16) 4LS
17) 6LS
18) 6LS
19) 1PSPS;1HNS
20) 1PSPS; 1LS
21) 6PSPS
22) 1PSPS; 9PSPS

CHEMISTRY QUESTIONS

23) 4PS
24) 4PS
25) 4PS
26) 4PS
27) 3HNS; 4PS
28) 4PS
29) 4PS
30) 4LS; 6LS; 1PSPS
31) 4PS
32) 3PS; 1PSPS
33) 3HNS; 4PS
34) 4PS
35) 4PS
36) 4PS
37) 4PS
38) 3HNS; 3PSPS
39) 4PS
40) 4PS
41) 3HNS; 4PS; 9PSPS
42) 3HNS, 9PSPS; 4PS
43) 4PS; 9PSPS
44) 4PS; 9PSPS
45) 4PS

PHYSICS QUESTIONS

46) 2PS
47) 5PS
48) 3HNS; 6PS
49) 4PS
50) 3HNS
51) 6ES; 3PS; 5PS
52) 6ES
53) 3PS
54) 9PSPS
55) 3HNS; 6PS
56) 5PS
57) 9PSPS; 3PS; 6PS, 5PSPS
58) 9PSPS; 6PS
59) 3PS
60) 2TS; 1TS; 3PS
61) 1TS; 3PS
62) 5PS; 6PS
63) 1PS; 5PS; 2TS
64) 3HNS; 1I; 4PS
65) 6PS
66) 4PS; 5PS
67) 6PS

EARTH SCIENCE QUESTIONS

68) 1ES; 3PS
69) 6ES
70) 2ES; 6ES
71) 2ES

72) 6ES; 2ES
73) 4ES
74) 6ES
75) 4ES
EARTH SCIENCE QUESTIONS (cont)
76) 3G
77) 3HNS; 6ES; 3G
78) 4ES
79) 4PSPS; 4ES
80) 4ES
81) 4ES; 6PSPS
82) 6ES
83) 3ES; 6ES
84) 4ES
85) 9PSPS
86) 3PS; 7PSPS
87) 1ES; 4ES
88) 3ES; 3PS
89) 3ES; 7PSPS
90) 3HNS; 3G; 7PSPS; 9PSPS

BIOLOGY: 1LS; 3G
PHYSICS: 3G
CHEMISTRY: 4PS
EARTH SCIENCE: 6PSPS
GENERAL SCIENCE: 2ES; 6ES

If My Mom Were a Platypus: Mammal Babies and Their Mothers
Summary and Articulation of National Science Education Standards

This book highlights the diversity of mammal life showing how they reproduce, and grow into adults. Children can compare and contrast how these mammals develop and survive into adulthood. They should see how these forms of life are connected to one another and provide evidence for evolution, a unifying theme in the Living Environment.

The following standards are specifically supported in this book. Since the age group includes both intermediate and elementary levels, both sets of standards for the Living Environment are included. All standards are taken from the National Science Education Standards (NSES) developed by the National Research Council (NRC), first published in 1996.

Content Standards for grades K-4:

The Characteristics of Organisms

Organisms have basic needs. For example, animals need air, water, and food; plants require air, water, nutrients, and light. Organisms can survive only in environments in which their needs can be met. The world has many different environments, and distinct environments support the life of different types of organisms.

Each plant or animal has different structures that serve different functions in growth, survival and reproduction. For example, humans have distinct body structures for walking, holding, seeing and talking.

The behavior of individual organisms is influenced by internal cues (such as hunger) and by external cues (such as a change in the environment). Humans and other organisms have senses that help them detect internal and external cues.

Life Cycles of Organisms

Plants and animals have life cycles that include being born, developing into adults, reproducing and eventually dying. The details of this life cycle are different for different organisms.

Organisms and Their Environment

All animals depend on plants. Some animals eat plants for food. Other animals eat animals that eat the plants.

Content Standards for grades 5-8:

Reproduction

Reproduction is a characteristic of all living systems; because no individual organism lives forever, reproduction is essential to the continuation of every species.

Regulation and Behavior

All organisms must be able to obtain and use resources, grow, reproduce and maintain stable internal conditions while living in a constantly changing external environment.

An organism's behavior evolves through adaptation to its environment. How a species moves, obtains food, reproduces, and responds to danger is based in the species' evolutionary history.

Diversity and Adaptation of Organisms

Biological evolution accounts for the diversity of species developed through gradual processes over many generations. Species acquire many of their unique characteristics through biological adaptation, which involves the selection of naturally occurring variations in populations. Biological adaptations include changes in structures, behaviors, or physiology that enhance survival and reproductive success in a particular environment.

Summary of National Mathematics Education Standards

Below is a summary of the five content standards as well as their corresponding goals. The standards indicate what is expected of students in grades 6–8, while the corresponding goals indicate what students should acquire from prekindergarten through grade 12.

Each of the goals and standards are listed with identifying codes. For a more detailed description of each standard go to:
http://standards.nctm.org/document/chapter6/numb.htm

Following this summary of standards is a list of the *101 Things Everyone Should Know About Math* problems and their associated standards, denoted by their identifying code. The goals and standards are both listed with identifying codes.

Numbers and Operations

Goal N1: The Number and Operations standards states that Instructional programs for prekindergarten through grade 12 should enable all students to: understand numbers, ways of representing numbers, relationships among numbers, and number systems.
Standard N1:

- Work flexibly with fractions, decimals, and percents to solve problems;
- compare and order fractions, decimals, and percents efficiently and find their approximate locations on a number line;
- develop meaning for percents greater than 100 and less than 1;
- understand and use ratios and proportions to represent quantitative relationships;
- develop an understanding of large numbers and recognize and appropriately use exponential, scientific, and calculator notation;
- use factors, multiples, prime factorization, and relatively prime numbers to solve problems;
- develop meaning for integers and represent and compare quantities with them.

Goal N2: Understand meanings of operations and how they relate to one another.

- Understand the meaning and effects of arithmetic operations with fractions, decimals, and integers;
- use the associative and commutative properties of addition and multiplication and the distributive property of multiplication over addition to simplify computations with integers, fractions, and decimals;
- understand and use the inverse relationships of addition and subtraction, multiplication and division, and squaring and finding square roots to simplify computations and solve problems.

Standard N2:

Goal N3: Compute fluently and make reasonable estimates.
Standard N3:

- Select appropriate methods and tools for computing with fractions and decimals from among mental computation, estimation, calculators or computers, and paper and pencil, depending on the situation, and apply the selected methods;
- develop and analyze algorithms for computing with fractions, decimals, and integers and develop fluency in their use;
- develop and use strategies to estimate the results of rational-number computations and judge the reasonableness of the results;
- develop, analyze, and explain methods for solving problems involving proportions, such as scaling and finding equivalent ratios.

Algebra
Goal A1: Understand patterns, relations, and functions.
Standard A1:

- Represent, analyze, and generalize a variety of patterns with tables, graphs, words, and, when possible, symbolic rules;
- relate and compare different forms of representation for a relationship;
- identify functions as linear or nonlinear and contrast their properties from tables, graphs, or equations.

Goal A2: Represent and analyze mathematical situations and structures using algebraic symbols.
Standard A2:

- Develop an initial conceptual understanding of different uses of variables;
- explore relationships between symbolic expressions and graphs of lines, paying particular attention to the meaning of intercept and slope;
- use symbolic algebra to represent situations and to solve problems, especially those that involve linear relationships;
- recognize and generate equivalent forms for simple algebraic expressions and solve linear equations

Goal A3: Use mathematical models to represent and understand quantitative relationships.
Standard A3:

- Model and solve contextualized problems using various representations, such as graphs, tables, and equations.

Goal A4: Analyze change in various contexts
Standard A4:

- Use graphs to analyze the nature of changes in quantities in linear relationships.

Geometry

Goal G1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.
Standard G1:

- Precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties;
- understand relationships among the angles, side lengths, perimeters, areas, and volumes of similar objects;
- create and critique inductive and deductive arguments concerning geometric ideas and relationships, such as congruence, similarity, and the Pythagorean relationship.

Goal G2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems.
Standard G2:

- Use coordinate geometry to represent and examine the properties of geometric shapes;
- use coordinate geometry to examine special geometric shapes, such as regular polygons or those with pairs of parallel or perpendicular sides.

Goal G3: Apply transformations and use symmetry to analyze mathematical situations.
Standard G3:

- Describe sizes, positions, and orientations of shapes under informal transformations such as flips, turns, slides, and scaling;
- examine the congruence, similarity, and line or rotational symmetry of objects using transformations.

Goal G4: Use visualization, spatial reasoning, and geometric modeling to solve problems.

Standard G4:

- Draw geometric objects with specified properties, such as side lengths or angle measures;
- use two-dimensional representations of three-dimensional objects to visualize and solve problems such as those involving surface area and volume;
- use visual tools such as networks to represent and solve problems;
- use geometric models to represent and explain numerical and algebraic relationships;
- recognize and apply geometric ideas and relationships in areas outside the mathematics classroom, such as art, science, and everyday life.

Measurement

Goal M1: Understand measurable attributes of objects and the units, systems, and processes of measurement.

Standard M1:

- Understand both metric and customary systems of measurement;
- understand relationships among units and convert from one unit to another within the same system;
- understand, select, and use units of appropriate size and type to measure angles, perimeter, area, surface area, and volume.

Goal M2: Apply appropriate techniques, tools, and formulas to determine measurements.

Standard M2:

- Use common benchmarks to select appropriate methods for estimating measurements;
- select and apply techniques and tools to accurately find length, area, volume, and angle measures to appropriate levels of precision;
- develop and use formulas to determine the circumference of circles and the area of triangles, parallelograms, trapezoids, and circles and develop strategies to find the area of more-complex shapes;
- develop strategies to determine the surface area and volume of selected prisms, pyramids, and cylinders;
- solve problems involving scale factors, using ratio and proportion;
- solve simple problems involving rates and derived measurements for such attributes as velocity and density.

Data Analysis and Probability

Goal D1: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

Standard D1:

- Formulate questions, design studies, and collect data about a characteristic shared by two populations or different characteristics within one population;
- select, create, and use appropriate graphical representations of data, including histograms, box plots, and scatter plots.

Goal D2: Select and use appropriate statistical methods to analyze data.

Standard D2:

- Find, use, and interpret measures of center and spread, including mean and interquartile range;
- discuss and understand the correspondence between data sets and their graphical representations, especially histograms, stem-and-leaf plots, box plots, and scatter plots.

Goal D3: Develop and evaluate inferences and predictions that are based on data.

Standard D3:

- Use observations about differences between two or more samples to make conjectures about the populations from which the samples were taken;
- make conjectures about possible relationships between two characteristics of a sample on the basis of scatter plots of the data and approximate lines of fit;
- use conjectures to formulate new questions and plan new studies to answer them.

Goal D4: Understand and apply basic concepts of probability.

Standards D4:

- Understand and use appropriate terminology to describe complementary and mutually exclusive events;
- use proportionality and a basic understanding of probability to make and test conjectures about the results of experiments and simulations;

  compute probabilities for simple compound events, using such methods as organized lists, tree diagrams, and area models.

One Minute Mysteries: 65 Short Mysteries You Solve With Math!
Articulation of National Mathematics Education Standards

Math at Home
1. Heavy Toll: N2
2. Roll of the Dice: D4
3. Pancake Mix-Up: M1, N1
4. In Hot Water: N2, M2
5. Flooring Them: N2, M2
6. Compounding His Interest: N2, N3
7. Setting the Date: N1, N2
8. Corralling the Problem: G1
9. It's a Gas: N2
10. Cover Up: G1, M1
11. Cereal Numbers: N2
12. Toss-Up: D4
13. Seeing the Light: M1
14. All Wound Up: N2
15. Getting the Point: A2, A3

Math Outside
16. Tall Tale: N1, N2
17. Raking their Brains: M1, N3, G1
18. A Measured Response: N2, N3
19. Lawn Ranger: M1, N1, N2
20. Don't Fence Me In: G1, N2
21. Slow Boat: A2, N1
22. Stepping Up to the Challenge: G1, N2
23. Getting a Lift: N2
24. Shoe on the Other Foot: M1
25. The Hole Truth: M1, M2, N1, N2
26. In the Deep End: G1
27. A Ton of Trouble: M1, N2
28. Go Take a Hike: N2
29. Chute in the Works: N1, N2
30. How Much Wood?: N1, N2

Math at Play
31. Jumping Thru Hoops: M2, N2, M1
32. Ace of Clubs: N2, M1, N1
33. A Slice of Life: N1, N2
34. A Perfect 10: N1, N2, D2
35. Cutting Corners: G1, G4
36. Net Result: D2, N2, M1
37. Capture the Difference: M1, M2, N1
38. Way to Go: M1, N1
39. Hit Parade: D2, N1, N2
40. Miniature Math: M1, M2, N1
41. Calling Long Distance: M1, N2
42. Luck of the Draw: N1, D4
43. Head Over Heels: N1, N2
44. Batter Up: D2, N2
45. Doing Swimmingly: N1, N2

Math Every Day
46. Rows and Columns: N3, M2
47. Sweet Solution: M2
48. Driving Them Crazy: M1, N2
49. Cold-Blooded Calc.: M1, M2, N1
50. Ups and Downs: M1, M2, N1
51. Yuck Around the Clock: M1, M2
52. Mixing It Up: M1, M2
53. String Theory: M1, M2, N1, N2
54. Product Placement: N1, N3
55. Coupon Rate: N2, N3
56. Turning Up the Volume: M1, M2
57. Down to the Last Drop: M1, N2
58. A Fan of Keeping Cool: N1, M1
59. Overdue Blues: N1, N2
60. Paper Chase: M1, N1, N2

Bonus Section: Five More Minutes of Mysterious Math!
1. Ice Cream, Anyone?: D4, N2
2. Puttin' on the Hits: M1, N2
3. And They Call This a Fair?: M1, M2
4. Cold as Ice: M1, N1, N2
5. A Switch in Time: N2

101 Things Everyone Should Know About Math
Articulation of National Mathematics Education Standards

Facts, Just Math Facts

1. Easy as Pi: G1
2. Hip to be Squared: N2
3. A Prime Number: N1
4. Following Orders: N2
5. Given the Choice: N2
6. You Know the Drill: N2, M1
7. Find it Fast: N2
8. Facts and Figures: M1, M4
9. Name that Polygon: M1
10. Polygon Area: M2
11. Polygon Area, the Sequel: M2
12. Show Me a Postcard: M2
13. The Great Pumpkins: M1
14. Over the Moon: D1
15. Father of Algebra: G4
16. Proof Positive: A2, N2

Health, Food & Nutrition

17. Pi and Pie: N1, N3
18. Smart Cookie: N1, M1
19. Half-Baked: M1, N1, N2
20. Tin Pan Tally: G1, M2
21. Marshmallow Treats: M1, M2
22. Putting on the Zits: N1, D4
23. Cricket Calories: N2
24. Going Buggy: N2
25. Pizza Combo: D4
26. Pizza Combo Part 2: D4
27. Dough Boy: N1, M1
28. Sugar and Spice: N1, M1
29. Hard Pill to Swallow: N1
30. Worth the Weight: M1, M2, N1, N2, N3

Travel Questions

31. Dim Bulb Racing: G1
32. Zoning Out: G1, N2
33. Instantaneous Travel: N2
34. Flying to Florida: N2
35. Ticket to Ride: A3, N1, N2
36. There and Back Again: N1, N3
37. Get Me to School on Time!: A2, A3, N2
38. Going the Extra Mileage: N1, N2, N3, M2
39. Sprockets: N2, D4
40. Moon Landing: N1, G1, M2
41. June Bugs: N1, N2
42. Around the World: N1, N2, G1, G4

Recreation and Sports Questions

43. Steve, Steve, Steve, Mary and Steve: N1, D4
44. Team Player: N1, D4
45. Round Robin: A3, N2
46. Batting Average: N2
47. Play Ball!: N2, A3
48. Cracking the Lock: D4
49. Slam Dunk: N2
50. Super Sprinter: M1, N1, N3, A2
51. Perfect Scores: N1
52. Tennis, Anyone?: N3, G3, A2
53. Triple Doubles: D4

Economics Questions

54: Scrimp and Save: A2, N1, N2
55. A Good Investment: A1, A2, A3, N2
56. Realty Check: D1, D2
57. Examining eCommerce: N1, N2
58. Chuck the Woodchuck: N1
59. DVD Deals: N1
60. Peanut Whiz Kid: N2, N3
61. We All Scream for Ice Cream: N2, M1
62. Here's a Tip: N1, N2
63. Buying Tires: M2
64. Calling Card: N2
65. Interesting Interest: N2, N3, A3
66. Gauging a Mortgage: N2, A3
67. Where Credit is Due: A3, N1, N2
68. Goody Goody Gumballs: N2
69. Kabibbleberry Jam: A1, A3

Nature, Music & Art Questions

70. Nanoseconds: N1
71. The Symmetry of Shapes: G3
72. Abby's Birthday: N2, A1, A3
73. Scale Model: A3, N1
74. Bubba the Flying Squirrel: N1, N3
75. Naked Mole Rats: N3, N2, D2
76. Terrific Tessellation: G1, G3, G4
77. Map Quest: A3, D1
78. Patching Things Up: N2
79. Tag, You're it: N2
80. Speed of Sound: A2, A3, A4
81. Make a Pitch: A1, A2, A3
82. Tuning Up: A3, N1, N2
83. Musical Mathematicians: G4
84. Shapely Structures: G1, G4
85. The Big Chill: A1, A3
86. Watch for Falling Rocks: A3, N1, N2, N3
87. Shaking Things Up: N2
88. Around the Sun: N1, N2
89. Seeing the Light: A3

Miscellaneous Questions

90. Cave Paper: G1, G4, N2
91. Cave Paper Continued: N1, N2, G1
92. Pet Pen: N1, G1, A2
93. Weather or Not: A2, A3, M1
94. Temperature Crossover: A2, A3, A4, M1
95. Flip a Coin: D4
96. Betting on the Square: N2, A3
97. Covering All the Bases: N2
98. Exceptional Student Combinations: D4, N2
99. Too Much Tunafish: D4
100. Electoral College: A3

Bonus Questions

1. Monthly Lunch: N1, A3
2. Freedom the Frog: A1, A2, A3
3. Counting in Binary: A1, N2
4. Road Trip: A3
5. Funny Bunnies: G4

APPENDIX 4

Critical Acclaim

Science, Naturally's books have received the coveted NSTA Recommends award (from the National Science Teachers Association), have been featured on National Public Radio, have won numerous awards and have been endorsed by national and international education and science organizations such as the American Association for the Advancement of Science (AAAS) and the Carnegie Academy for Science Education.

For a listing of some of the awards and acclaim our books have received, please see the attached sheets.

DISCOVER WHY EVERYONE LOVES

ONE MINUTE MYSTERIES:
65 SHORT MYSTERIES YOU SOLVE WITH SCIENCE!

NAPPA HONORS WINNER
National Parenting Publications operates the most comprehensive awards program for Children's Products and Parenting Resources.

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Selected by Library Media Connection as an exceptional title for school libraries.

SCIENCE BOOKS & FILMS: ★★ (highest rating)
The review journal of the American Association for the Advancement of Science (AAAS), gave the book two stars.

Recommended by the **CARNEGIE INSTITUTION FOR SCIENCE**: "Parents and kids alike will be challenged by these stimulating, real-world science mysteries. This book belongs in every school and every home."

Recommended by ***Science News*** magazine of the Society for Science and the Public.

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Eric Yoder and Natalie Yoder
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Paperback ▪ Ages 8 to 12 ▪ 8.5" x 5.5" ▪ 176 pages ▪ $9.95

Contact Us: 202-465-4798 / Toll-free:1-866-SCI-9876
Info@ScienceNaturally.com

DISCOVER WHY EVERYONE LOVES

101 Things Everyone Should Know About Science

Awarded the highly regarded "**NSTA Recommends**" distinction by the National Science Teachers Association, the world's largest organization promoting excellence in science teaching.

National Best Books Award Finalist
Award sponsored by USABookNews.com, the premiere online magazine and review website.

***Science Magazine*:** "This book could be called 'How to Learn Science Without Really Trying!'… provides answers in a succinct, cleverly written, and understandable format. Should be on everyone's bookshelf!"

Carnegie Academy for Science Education: "…provides clear and engaging explanations of complex phenomena…encourages a lifetime of curiosity about the world around us!"

"…challenges, intrigues us, and leads us on a voyage of discovery….captures science with pithy and engaging explanations!"
–**WonderQuest**, the online science column in ***Toronto Globe and Mail***

"If you are looking for a book that will help to guide your older child's interest into biology, chemistry and physics, then *101 Things Everyone Should Know About Science* is the book for you. The book is designed to spark the curiosity of children so that they will desire to learn more about science...a wonderful supplemental tool to add to any science curriculum."
–The Old Schoolhouse, a magazine dedicated to homeschooling families

★★★★ **Midwest Book Review:** "a compendium of diverse fun science facts suitable for inquiring minds from 8 to 80!"

Science Books & Films: "The information is accurate, but of even greater importance is that the book is stimulating and creates a positive science!"

101 Things Everyone Should Know About Science
Dia L. Michels and Nathan Levy
ISBN-10: 0-9678020-5-9 ▪ ISBN-13: 978-0-9678020-5-3
Paperback ▪ Ages 8 to 12 ▪ 8.5" x 5.5" ▪ 160 pages ▪ $9.95

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DISCOVER WHY EVERYONE LOVES

ONE MINUTE MYSTERIES: 65 SHORT MYSTERIES YOU SOLVE WITH MATH!

Awarded the highly regarded "**NSTA RECOMMENDS**" by the National Science Teachers Association, the world's largest organization promoting excellence in science teaching.

Authors featured on **SCIENCE FRIDAY**, the weekly science talk show on public radio stations nationwide.

Recommended by ***Science News*** magazine of the Society for Science and the Public.

"If you had to deal with the same boring word problems I had to deal with in school you'll like the challenges in this book a whole lot better - or at least your kids will."

HOT TOY FOR 2010: "Math can help solve real-life dilemmas, this collection of puzzles for young adults illustrates."

★★★★ Reviewers gave the book **four out of five stars** and proclaimed that "this is a book children will enjoy as they learn math skills."

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DISCOVER WHY EVERYONE LOVES

101 THINGS EVERYONE SHOULD KNOW ABOUT MATH

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HOT TOY FOR 2010: "Math can help solve real-life dilemmas, this collection of puzzles for young adults illustrates."

Recommended by ***Science News*** magazine of the Society for Science and the Public.

"The staff of Science, Naturally! proves that math isn't something only for nerds, it's something everyone can, and will, use. *101 Things Everyone Should Know About Math* is a read that will serve well in any children's trivia or mathematics collection."

★★★★ Reviewer John L. Hoh, Jr. gave it **four stars**: "this book…explores the many disciplines of math, such as logic, geometry, statistics, probability, fractions, etc. This is a book children will enjoy as they learn math skills."

Wild About Math!

"Math really is everywhere… *101 Things* does a great job of helping kids (and parents too) to get more comfortable with the Math all around us."

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Marc Zev, Kevin B. Segal, and Nathan Levy
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If My Mom Were a Platypus: Mammal Babies and Their Mothers

Awarded the highly regarded **"NSTA RECOMMENDS"** by the National Science Teachers Association, the world's largest organization promoting excellence in science teaching.

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Science Books & Films: ★★ (highest rating!)
The review journal of the American Association for the Advancement of Science (AAAS) gave the book two stars.

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