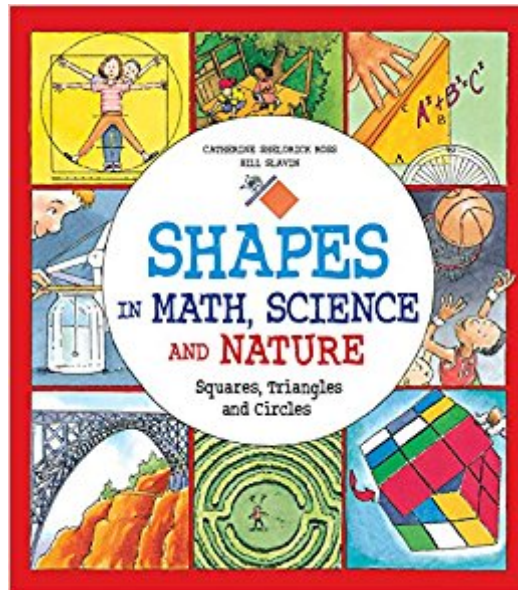




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Shapes In Math, Science And Nature: Squares, Triangles And Circles



Synopsis

The three books in the popular Shapes in Math, Science and Nature series, Squares, Triangles and Circles, are now available in one amazing compilation. The design has been refreshed, and the text by Catherine Sheldrick Ross has been lightly updated. What makes the compilation so unique and just plain interesting is how many topics it manages to cover for each of these three most basic shapes. For example, squares are explored not just in terms of what they are, how they are drawn and their geometry equations, which are all described in-depth, but also through ancient legends that feature squares, language expressions that use the word square (?back to square?), illusions done with squares, city grids designed with squares and famous city centers that are squares (think Red Square in Moscow). There are also numerous ideas for hands-on-learning activities ---projects, puzzles, experiments --- that relate the text to everyday life. The imaginative artwork by award-winning illustrator Bill Slavin manages to clearly convey the sometimes difficult concepts in the text, while keeping the visuals fun and humorous enough to hold the interest of young readers. It's easy to see why the books in this compilation have been perennial favorites with educators. It includes engaging, well-written, interactive content that helps make geometry and measurement concepts graspable and even enjoyable, while also offering opportunities for lessons on a range of subjects from science, technology and engineering to social studies, art, and architecture. There is an extensive table of contents, glossary, and index for reference.

Book Information

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Age Range: 9 - 14 years

Customer Reviews

This bountiful compendium brings together three colorful books originally published separately in paperback: Circles (1993), Triangles (1994), and Squares (1996). Each section leads off with a close-up look at its subject using a geometric figure with arrows pointing to nearby terms and definitions. The section on squares includes square numbers, square-based optical illusions, cubes in architecture, and instructions for making a tangram. The next section includes a wide assortment of triangle-related topics, from the Egyptian pyramids to the Bermuda Triangle, from bridge construction to fractals. Similarly, the third section explores circles and spheres as well as concepts such as pi and Fibonacci numbers. Ink drawings with watercolor washes brighten each page and clarify the concepts and explanations in the text. Precise yet playful in approach, this book supplies a good deal of basic information while entertaining readers with short narratives, challenges, and hands-on activities. An engaging introduction to basic geometry. Grades 4-7. --Carolyn Phelan

This book has been written for junior and intermediate students and is an excellent resource for math and science teachers ... I would strongly recommend this book to teachers who are looking to enrich their math and science programs or to parents who wish to show their children how much fun math and science can be. — Canadian Children's Book News

This book is AMAZING. Perfect balance of pictures and information with activities at several levels of abilities. Great way to learn math concepts.

I love it!

Fun book with lots of real-life applications. Perfect for my curious child.

When I saw this book, I wasn't certain what to expect. It was a book about shapes. My students in 5th and 6th grade know their shapes...I was pleasantly surprised by what I found inside. There is a little bit of everything included in the book. You will find history of the shape, how the shape has been used throughout history, how it is used in architecture, games using the shape, origami, and idioms. This is just a short list of the wonderful things you will find. This is definitely a book to be put on my keeper shelf. I can see using it to introduce my geometry units as well as using it during

social studies or science class. The information that is included in the text is just that varied. I could see this being use in an elementary classroom as well as in a middle school. There is basic information for younger children but also much more difficult material that will interest the older children (Pythagorean theorem and pi).

I received an eARC copy of this book via NetGalley to review. Here are my honest thoughts. As a preschool director, teaching shapes is one of the core components of our curriculum. This text is too advanced for a young child. It is however, a wonderful book! Despite the book not being for young children, I do think a preschool teacher would find this a valuable resource tool as they teach about shapes. My favorite thing about the book are the experiments that it includes. I can see many of them working very well in a preschool setting (square bubbles would fascinate young children) My first grader would love this book and I am putting it on our book wish list. As the other reviewer stated, this book is great for elementary students as they learn more about shapes and how they work. As a teacher and parent, I appreciate that the 3 volumes have been combined into one. I also recommend this book to parents and grandparents of children who like math.

Covering math, science and physics, this book should appeal to and be useful for the upper elementary school grades through high school. It explores shapes and how they are found in nature and in mythology, and mathematical formulas and includes how to make paper shapes, origami and more. From the Sydney Opera House to Stonehenge, pyramids to igloos this book has lots of fun experiments, math problems and activities all relating to shapes. I like the book but and think that it can be useful in schools and for homeschooling as well. I received this book free to review from Netgalley.

This is a great series and now they're all combined into one book! I am a total math nerd and have several students who share this passion. Some of these activities I am doing with them already, but this book gave me so many more ideas. Circles, squares, triangles, and their 3-d counterparts...if I'm not careful, going through this book again more slowly will totally take up my life.

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