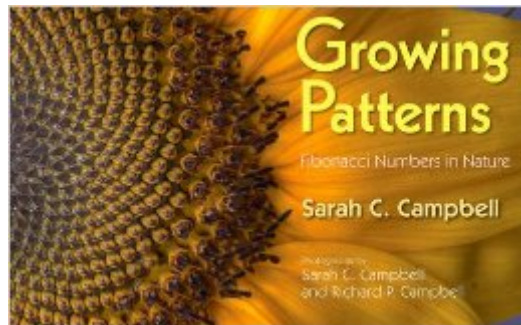


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# Growing Patterns: Fibonacci Numbers In Nature



## Synopsis

The biggest mathematical mystery in nature&#151;Fibonacci numbers! Named after a famous mathematician, the number pattern is simple: 1, 1, 2, 3, 5, 8, 13. . . . Each number in the sequence comes from adding the two numbers before it. What's the mystery? The pattern crops up in the most unexpected places. You'll find it in the disk of a sunflower, the skin of a pineapple, and the spiral of a nautilus shell. No one knows how nature came up with the sequence. Sarah C. and Richard P. Campbell introduce the Fibonacci sequence through a series of stunning photographs in this ALA Notable Children's Book. Young readers will soon be seeing nature through new eyes, looking for Fibonacci numbers in daisies, pinecones, leaf patterns, seashells, and more.

## Book Information

Lexile Measure: 910 (What's this?)

Hardcover: 32 pages

Publisher: Boyds Mills Press (March 1, 2010)

Language: English

ISBN-10: 1590787528

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Product Dimensions: 0.2 x 12 x 7.5 inches

Shipping Weight: 12.8 ounces (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 starsÂ Â See all reviewsÂ (25 customer reviews)

Best Sellers Rank: #114,676 in Books (See Top 100 in Books) #62 inÂ Books > Children's Books

> Education & Reference > Science Studies > Nature > Flowers & Plants #548 inÂ Books >

Children's Books > Education & Reference > Math #1939 inÂ Books > Children's Books > Science,

Nature & How It Works

Age Range: 5 - 11 years

Grade Level: 1 - 6

## Customer Reviews

One of the more interesting requests I receive at my library's reference desk comes from parents seeking math books for their kids. Generally speaking, they don't want math textbooks or worksheets of math problems. No, they want books in a picture book format that incorporate math in some original manner. Now it is fortunate that there are a slew of such books out there. You can find them in any good children's library if you know where to look and with the right teacher or parent, such books can make concepts like fractions or division or subtraction make perfect sense.

Fibonacci numbers are a little trickier. Unlike addition or multiplication they are difficult to show to kids as having practical applications in real life. You could discuss how Fibonacci numbers apply to music, but that's still tricky territory. Nature, however, is a natural complement. Kids understand flowers. Kids can understand duplicating numbers. Put the two together and you've the newest picture book format math book to add to your shelves. It does contain a couple difficult concepts, but with the right grown-up by their side, there's very little in "Growing Patterns: Fibonacci Numbers in Nature" that a child won't be able to figure out on their own. Take a look at these flowers and count the petals you see. One. Two. Three. Five. Eight. Notice anything? These petal numbers add on to one another. One plus two equals three. Two plus three equals five. These numbers are called Fibonacci numbers, and what's crazy is that as they go they keep showing up in nature and it's not just in flowers either. If you count spirals on pinecones or sunflowers or pineapples, no matter how you look at them they equal one of these numbers.

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