



MATH IN NATURE

MINI KIT



by Kelli Pearson



MATH IN NATURE (MINI KIT)

Did you know you can find math in nature?



There's a math pattern that happens so often in nature, some people call it "nature's secret code".

It's called the Fibonacci (fi-bo-NACH-ee) sequence.



You can find Fibonacci numbers in many places in nature—including counting flower petals!

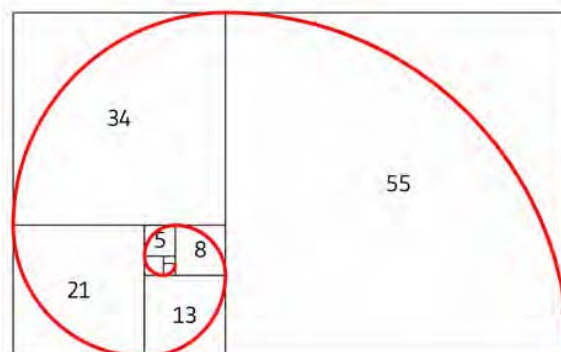
This *Math In Nature (Mini Kit)* is a small part of the book:

Math In Nature: Fibonacci for Kids Age 7-11.



There is much more to discover about Fibonacci numbers in nature, but this Mini Kit is a wonderful place to get started.

Happy exploring!



HOW TO MAKE A FIBONACCI PATTERN



1. Start by writing 0 and 1.

0 1

2. Add the 0 and the 1 to get the next number.

0 1 1
 $0 + 1 = 1$

3. Add the LAST two numbers. Write the answer in the next line.

0 1 1 2
 $1 + 1 = 2$

4. Keep adding the last two numbers. Continue the pattern.

0 1 1 2
 $1 + 2 = 3$

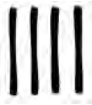
You can find Fibonacci numbers in nature. On the next page, you'll take a walk outside and hunt for these numbers in leaves and flower petals.

FIBONACCI SCAVENGER HUNT

1. **Take a walk outside.** Look for Fibonacci numbers and spirals in nature.

2. **Make a tally mark on the score sheet when you find something.**

If you see many of the same thing, count it only once.



This shows the number 4.



This shows the number 5.



What number is this? _____



3. **Add up your score.** Then answer the questions on the next page.



FIBONACCI	TALLY	POINTS EACH	TOTAL POINTS
3		3	
5		5	
8		8	
13		13	

TOTAL POINTS: _____

SCAVENGER HUNT QUESTIONS

1. What Fibonacci number did you find the most of? _____

2. Draw a picture of some of the objects you found.



3. What was the most interesting thing you discovered? _____

4. Draw a picture of it.

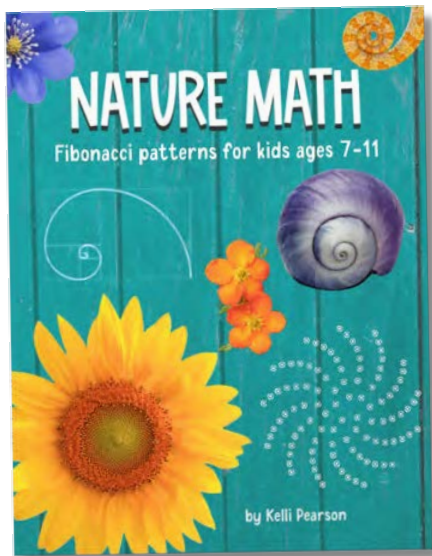


5. What did you learn about Fibonacci numbers? _____

6. What was something that surprised you? _____

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