Fibonacci sequence activity

Leonardo of Pisa was a mathematician also known as ‘Fibonacci’. Fibonacci discovered one of the most famous number sequences in the world: the Fibonacci Sequence.

The rule to the pattern is that you **add the 2 previous number together to get the next number in the sequence**.

Let’s investigate…

The Fibonacci sequence starts with 0 and 1. We add 0 and 1 together to get the next number which is another 1. Fill out the blank squares below to uncover the rest of the sequence.



List the numbers in the red squares: 0, 1, 1, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Now let’s create a Fibonacci spiral!

1. On grid paper draw squares that have the same side lengths as the numbers in the Fibonacci sequence.

That is, draw a:

**1** by 1 square

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**2** by 2 square

**3** by 3 square

**5** by 5 square etc.

1. Cut out the squares and arrange them so that they are connected side-by-side as shown in the diagram below.



1. Draw a curve going through the diagonals of each square forming a spiral. Start with the original 1 by 1 square.





Source: [Print-Graph-Paper.com](https://print-graph-paper.com/details/5mm)