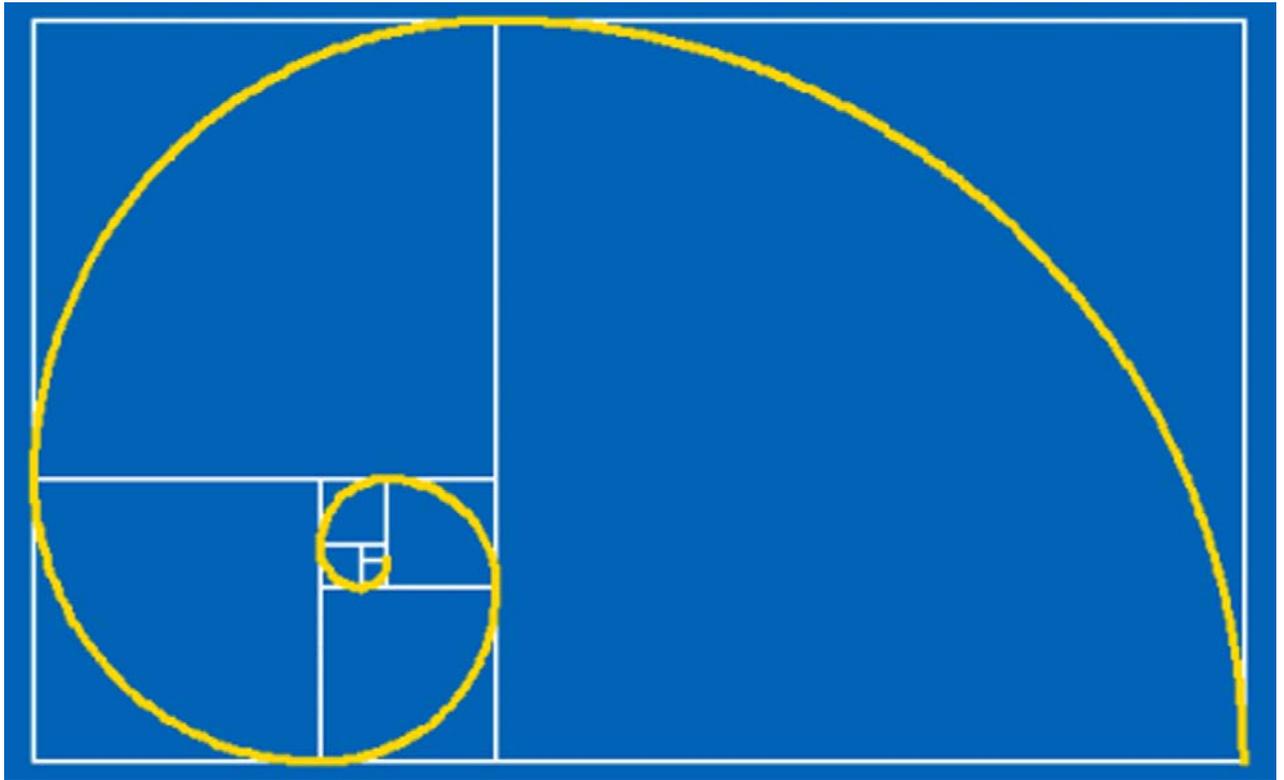


## The Golden Curve (Year 7)



This curve is related to a sequence of numbers known as the **Fibonacci sequence**.

It starts: 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

1. What are the next four terms?
2. Fill in the table by calculating the decimals. Use a calculator!  
(Note that  $2/1$  means 2 divided by 1, or  $2 \div 1$ .)



Ratio	1 / 1	2 / 1	3 / 2	5 / 3	8 / 5	13 / 8	21 / 13	34 / 21
Decimal	1.0000							

What do you notice?

3. In the picture above, suppose that the two smallest squares have side length 1 unit. What are the side lengths of the other squares in the picture?
4. How does the sequence relate to the picture?