

Colouring Fibonacci spirals

TEACHER NOTES



Learning Opportunities:

In this activity, children will explore the Fibonacci sequence in a fun and engaging way, using Fibonacci numbers to create their own characters. It is a great opportunity for children to apply their imagination by thinking about what the formation of the spiral could represent. For example, a snail's shell.

How to raise money:

Pupils can be sponsored for how many sheets they colour in. Alternatively, parents and carers can make a donation.

What you'll need:

- Colouring pens/pencils/crayons
- Scissors

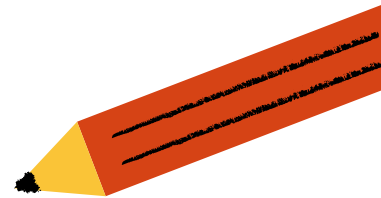
How to play:

1. Share with children the Fibonacci Numbers activity sheet and work out the initial numbers in the sequence. For KS1 this could be completed as a class, in small groups or pairs.
2. Demonstrate how these numbers can be used to make squares. Explain that these squares will be used as a guide to create an exciting shape (a spiral).
3. Model drawing a curve from one corner of the square to its opposite diagonal corner to create a spiral.
4. Children can choose to colour in one of the characters from the activity sheets or design their very own using a blank template!

Extension ideas:

- Having created their character using a Fibonacci spiral, children can cut out the shapes and create a jigsaw for a friend to put the pieces back together. A KS2 class could create a series of jigsaw puzzles for KS1 or EYFS children to solve.
- Children can create a number story all about their character. Using only the numbers in the Fibonacci series, children can write an adventure story or the autobiography of their character.

This activity was created by Maths on Toast, the family maths charity. To find more activities online go to: mathsonttoast.org.uk



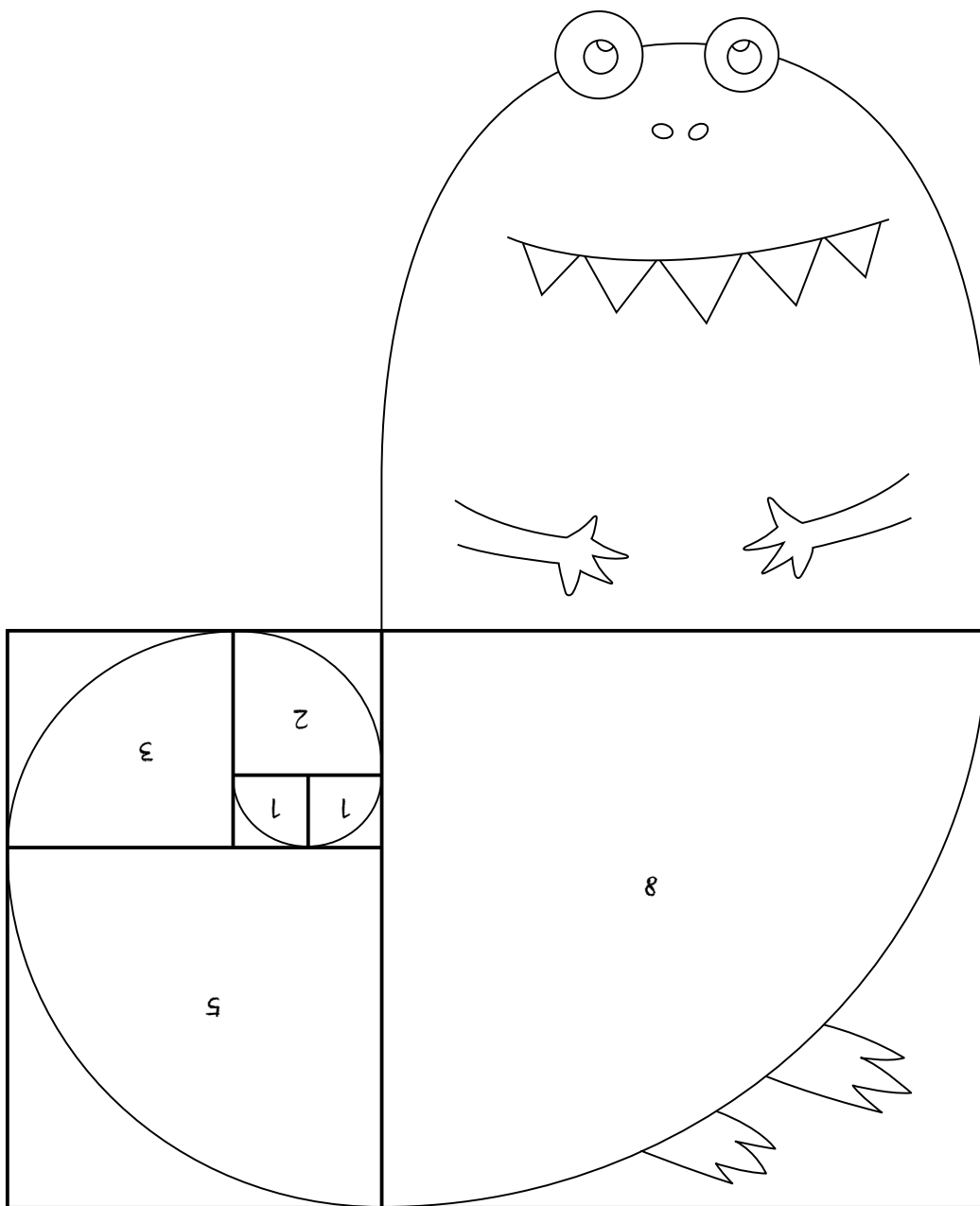
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PUPIL WORKSHEET



Fibonacci dinosaur colouring sheet

This dinosaur has a Fibonacci spiral tail.



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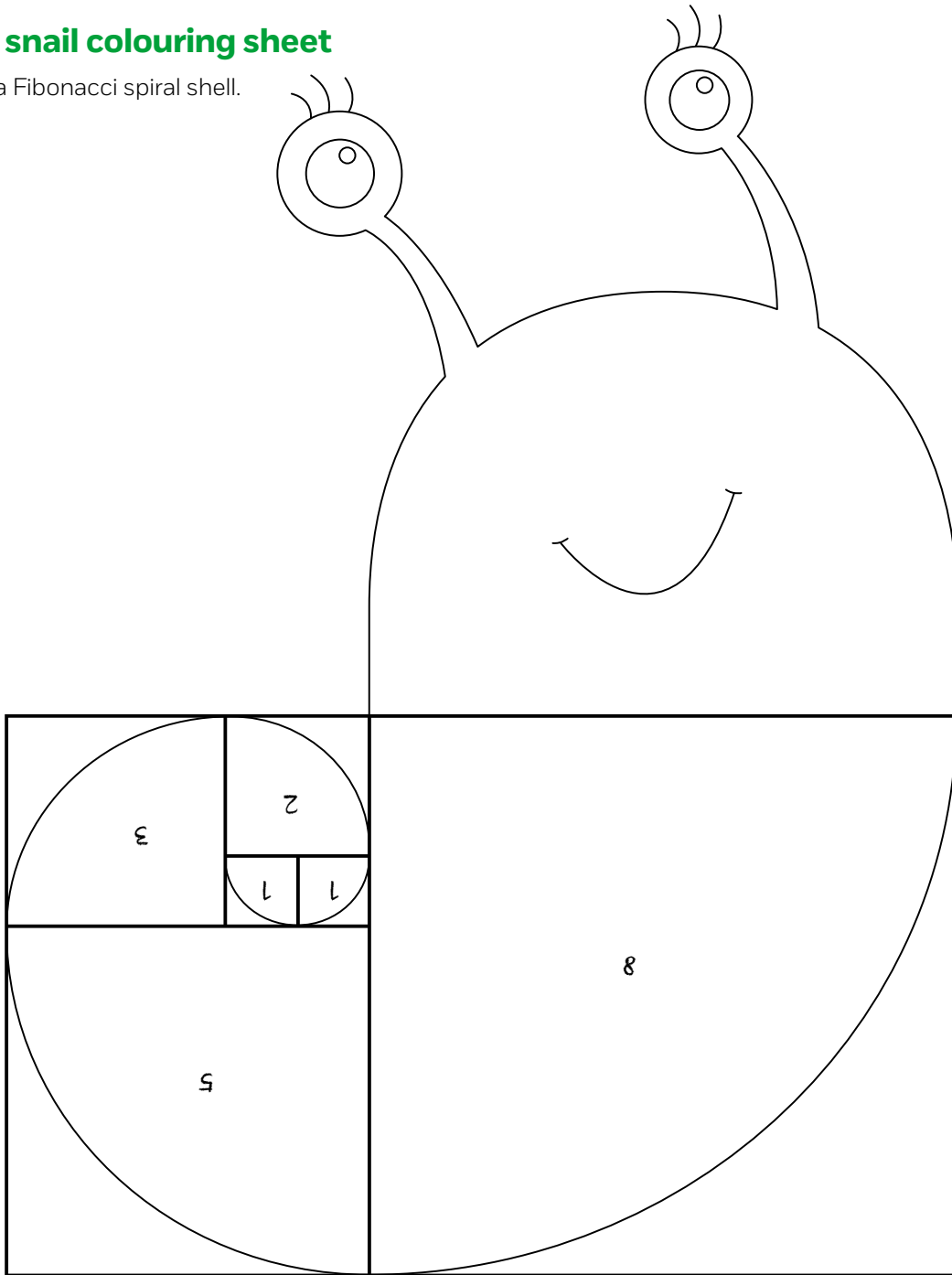
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PUPIL WORKSHEET



Fibonacci snail colouring sheet

This snail has a Fibonacci spiral shell.



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EYFS, KS1 and KS2

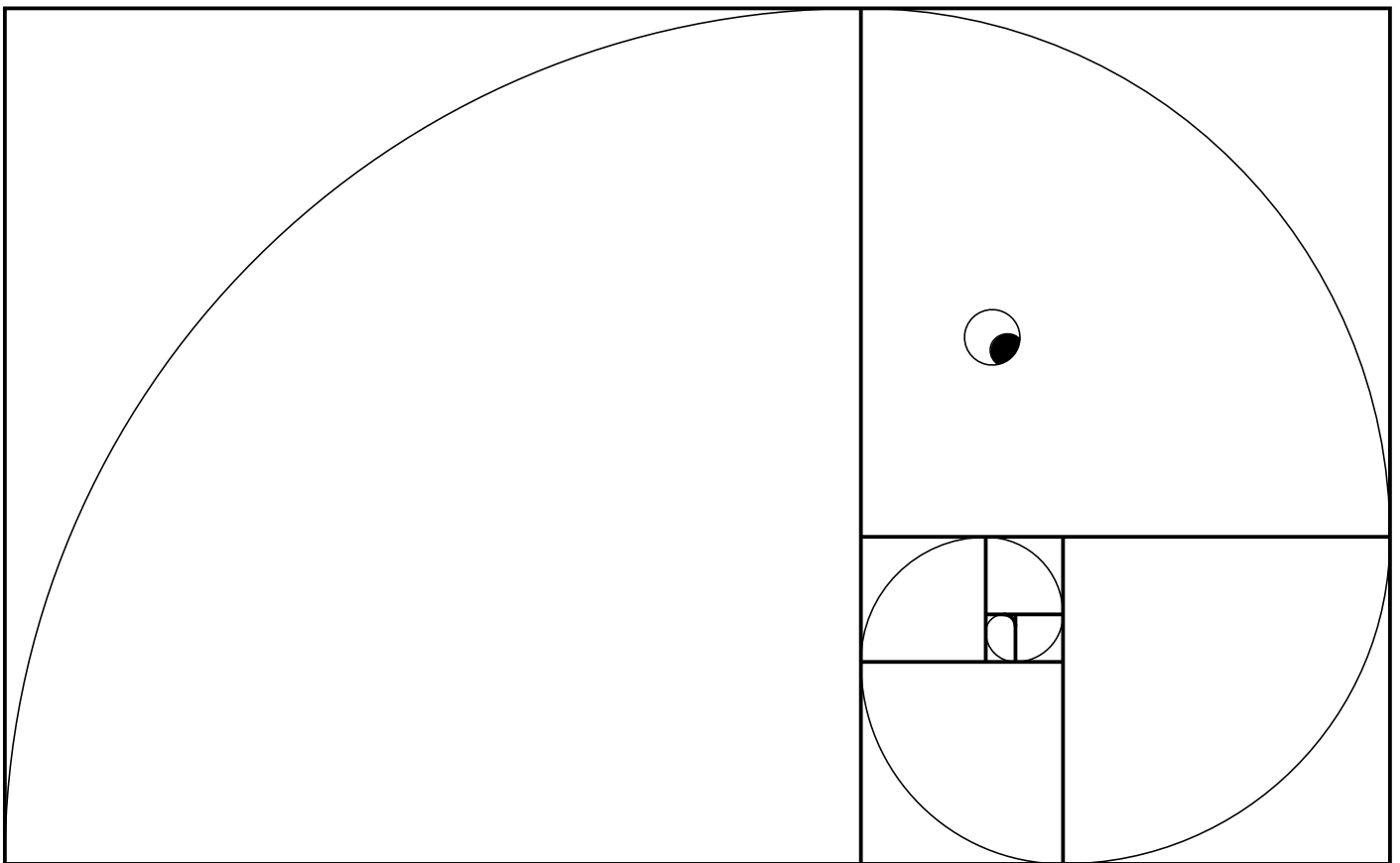
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PUPIL WORKSHEET



Fibonacci elephant colouring sheet

This elephant has a Fibonacci spiral head.



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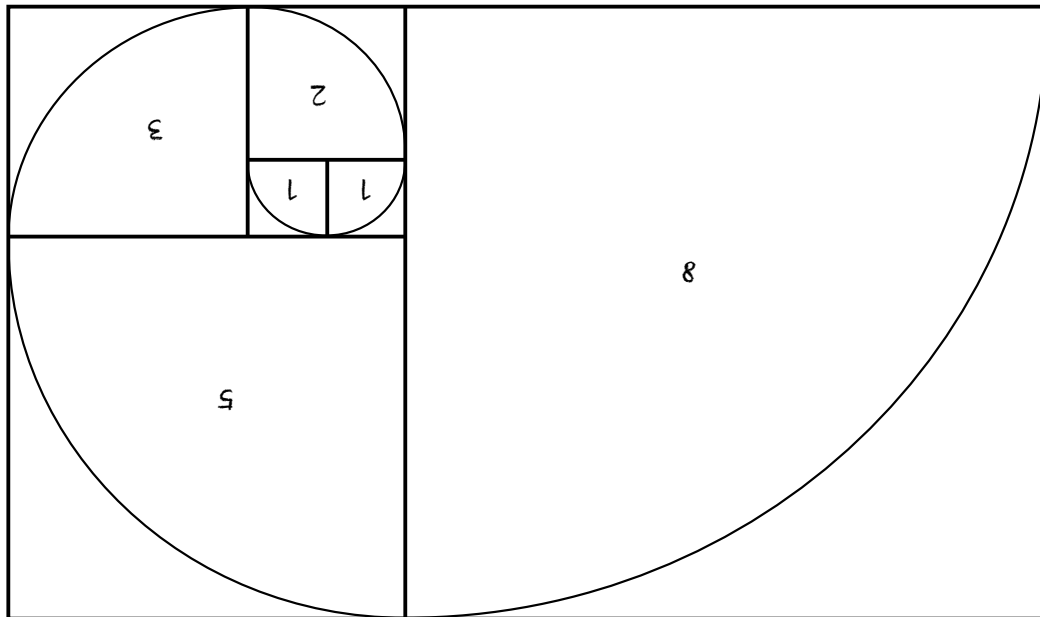
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PUPIL WORKSHEET



Create your own Fibonacci spiral character

Think about what the formation of the spiral could represent.



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