

MATHEMATICS



Geometry of flowers

HOW TO CREATE YOUR ELEMENTS

STORAGE

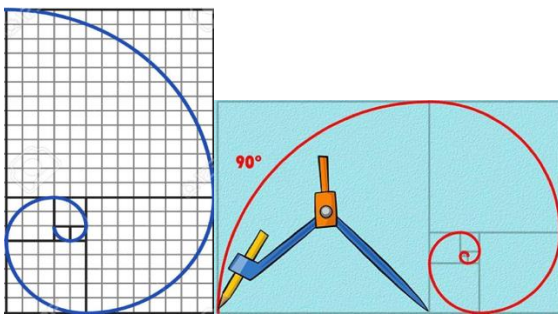
For these sequences, the material created should fit in a small box or an envelope.

CRAFT THE ELEMENTS

A. Creating Cards

Cut out the Storytelling elements cards on the broken line. Follow the instructions in sequence 1.

B. Creating the Fibonacci Spiral (Sequence 2)



Follow the directions and watch the spiral emerge. (Each successive square will have



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one edge with a length, the sum of the two squares immediately preceding it.)

1. Draw a 1cm square. Draw a second 1cm square to its left, making sure the squares touch.
2. Draw a 2cm square above the two 1cm squares, touching the lower squares.
3. Draw a 3cm square to the right of the three existing squares; its left side should touch the other squares.
4. Draw a 5cm square below these squares.
5. Draw an 8cm square to the left of the existing five squares.
6. Draw a 13cm square above the six squares.
7. Use a compass to complete the drawing. Within each square of your drawing, draw an arc from one corner to the opposite corner. (Each arc will have a radius equal to the length of one side of its square.) Connect each arc to the next. To begin, place your pencil in the upper-right corner of the original 1-inch square and draw an arc toward the lower-left corner. In the second square, draw an arc from that point (the lower-right corner) to the upper-left corner of the second square. Continue drawing arcs in each square, starting each arc at the point where the last one ended.

ALTERNATIVES

A. Large space

- If you have an outdoor floor or wall available, you can draw the spiral with chalk.
- If you have an interactive whiteboard in your class, you can also draw on it.
- Finally, if the options above are not possible, you can draw each quarter on a separate sheet of paper and put it on A3 paper.



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