

Activity Card 4

Reflections, Rotations and Spirals (Card 4)

- In this activity, you have the opportunity to draw and investigate spiral shapes.
- When drawing a spiral, you have to make each side either a little larger or a little smaller than the side before it.
- The procedure below will draw a spiral for you.

forward 100

right 90

forward 80

right 90

forward 60

right 90

forward 40

right 90

forward 20



- Could you try to draw a spiral with the sides increasing each time?
- If you wanted to draw a simple reflection of your spiral, which of your commands do you think you would need to change?
- Could you try to draw a spiral and then add its reflection?
- When you have finished, you could add these lines to your procedure:

penup

home

right 90

forward 10

left 90

pendown

The first list of code will place your turtle beside your starting position. You can then ask your partner to try to follow your path into the centre of the spiral without touching any of your lines.

or

penup

right 90

forward 10

left 90

pendown

The second list of code will position the turtle in the centre of your spiral. You can then ask your partner to try to escape from the spiral without touching any of the lines you have already drawn.

Colour codes for `setpencolour`

1	Black	6	Grey	11	Yellow
2	Red	7	Magenta	12	Dark Green
3	Green	8	Orange	13	Light Grey
4	Blue	9	Pink	14	Brown
5	Cyan	10	White	15	Purple