KIDCODER: PATTERN RECOGNITION

<5MIN

20MIN

STAGE 3

AIM OF ACTIVITY

Have you ever done something over and over again in order to complete a task? This probably means there was a pattern! For example, in the sequence below can you guess what the pattern is:

1, 4, 9, 16, 25...

WHAT YOU'LL NEED

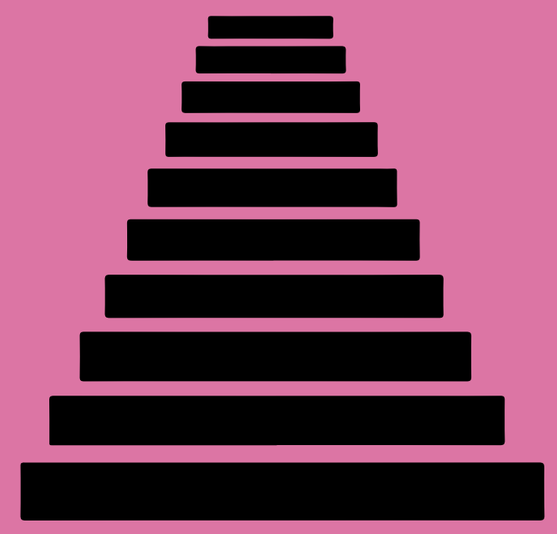
- Just yourselves!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use pattern recognition
- Learn how to use pattern recognition to bake a cake!

PATTERN RECOGNITION

Pattern recognition is a cornerstone of computational thinking. By looking for similar things in problems, we are using pattern recognition. In our daily lives, this is usually when we do something with a repeated action, like walking upstairs. Knowing when we'll repeat these actions can save us time in the long run!



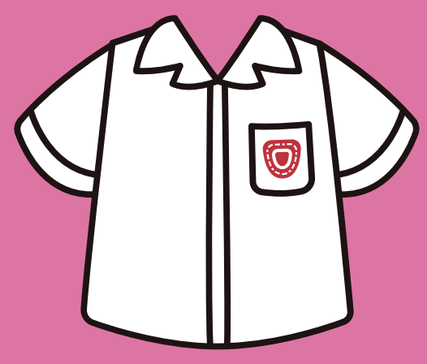
https://github.com/naomifelix/KidCoder-2.0-Teaching-Computational-Thinking-Concepts-Through-Resources-and-Play

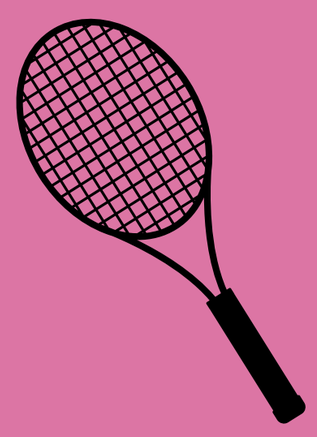
KIDCODER: PATTERN RECOGNITION

WHAT TO DO

(1)

Recognising patterns in our lives can be very helpful, and we can use them to save us time!





(2)

Think of a routine you do regularly, it could be getting ready for school in the mornings, or maybe you play a sport every week.

(3)

Can you think of the patterns within your regular task? This could be any actions that you repeat or a step you have to do more than once.

(4)

Would you still be able to complete your routine if you were not able to repeat anything? How would it be different?

USING IN THE CLASSROOM

Draw a design including a particular pattern. See if your partner can recognise the pattern in your design! What is the importance of using pattern recognition in our daily lives? Discuss with your partner and write down what you think!

TAKE IT FURTHER

How difficult would you find your routine if you were doing it for the first time? Discuss with your leader!