

KIDCODER: LET'S MAKE A JAM SANDWICH!



PATTERN RECOGNITION



5MIN



15MIN

STAGE 2

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

- A plate and a knife!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use pattern recognition
- Learn how to use pattern recognition when making a jam sandwich!

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. Recognising these actions can save us time in the long run, including when we're making a jam sandwich!



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PATTERN RECOGNITION

WHAT TO DO

(1)

One particular repeated action (or pattern) when making a cup of tea is spreading the jam with a knife.



(2)



You can use the plate and knife to help you visualise!

What is the importance of this pattern in the algorithm?

(3)

Could this repeated action be applied to any other daily tasks?

(4)

How do you think recognising patterns in algorithms can help us? Discuss with others what you think!

USING IN THE CLASSROOM

Imagine someone has never heard of the word 'spread'. In pairs, write a step-by-step guide for spreading jam on sliced bread. Try and notice the repetition in this, and see if you can do the same for any other action words!

TAKE IT FURTHER

In pairs, try and think of another repeated action that we do in a certain daily task and answer the same questions for it!