

# KIDCODER: LET'S MAKE A CUP OF TEA!

## 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 mug and a teaspoon!

#### WHAT YOU'LL GET OUT OF IT

- Understand what it means to use pattern recognition
- Learn how to use pattern recognition when making a cup of tea!

## 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 cup of tea!



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## PATTERN RECOGNITION



### WHAT TO DO

(1)

One particular repeated action (or pattern) when making a cup of tea is stirring the tea with a teaspoon.



(2)



You can use the mug and teaspoon 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 'stir'. In pairs, write a step-by-step guide for stirring a cup of tea. 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!