

KIDCODER: LET'S BAKE A CAKE!

ALGORITHMS



10MIN



20MIN

STAGE 1

AIM OF ACTIVITY



Sometimes we can know what to do to solve a problem but not how to do it. When we use computational thinking, we can figure out how to solve a problem step-by-step!

WHAT YOU'LL NEED

- Each of the completed steps from the given attachment, cut out, folded and placed into a bowl (mixed up)!

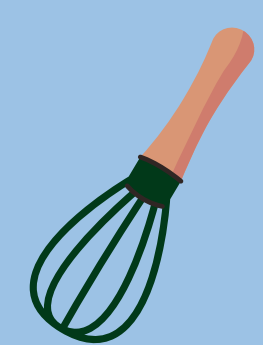
WHAT YOU'LL GET OUT OF IT

- Understand what it means to use algorithms
- Learn how to use an algorithm to bake a cake!

ALGORITHMS

Algorithms are step-by-step instructions that help us complete a task. It is all about doing things in the right order, like putting your socks on before your shoes when you get ready for school! By getting a list of ordered steps, we can create an algorithm for baking a cake!





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WHAT TO DO

(1)

Stand in a big circle with the bowl of steps in the middle!



(2)

A volunteer should get a step from the bowl and read it out loud. Stay in the middle with your step!

(3)

Repeat this with different volunteers until all the steps have been read out loud.

(4)



It may help to start with the first and last steps, and then work your way inwards.

With the help of everyone, the volunteers need to try and line up in the correct order so that the cake can be baked successfully!

USING IN THE CLASSROOM

In pairs, draw a picture to represent each step in baking a cake. Swap your pictures with another pair and see if you can place them in the correct order!

TAKE IT FURTHER

Try and think of as many ways as possible where swapping some of the steps around would mean our cake doesn't turn out quite right!