



KIDCODER: LET'S BAKE A CAKE!

ALGORITHMS



5MIN



20MIN

STAGE 2

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

- Some ingredients/items used in baking a cake – for visualisation!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use algorithms
- Learn how we can apply algorithms to baking 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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ALGORITHMS



WHAT TO DO

(1)

When creating an algorithm, it is important to ensure that the steps are in the right order. We can ensure this by making sure certain conditions are met before moving on!



(2)

In small groups of 3 or 4, we'll create an algorithm for baking a cake by writing each step in order.

(3)

As each step is written down, think of a question we could ask to make sure we can move on. For example, have all the ingredients been measured?

(4)

Keep going until you think you've completed all the steps!

USING IN THE CLASSROOM

In pairs, write out the ordered steps for baking a cake. You can use an online recipe to help you if you wish! Swap your steps with another pair and try to think of a question for each step to ensure the conditions are met!

TAKE IT FURTHER

Do you think this is the only correct order of steps to create an algorithm? Or could there be multiple correct ways? Tell your leader what you think!