KIDCODER: LET'S BAKE A CAKE!

DECOMPOSITION

5MIN

15MIN

STAGE 1

AIM OF ACTIVITY

What do we do when we face a big problem? One thing that can help is breaking the problem down into much smaller, easier problems.

WHAT YOU'LL NEED

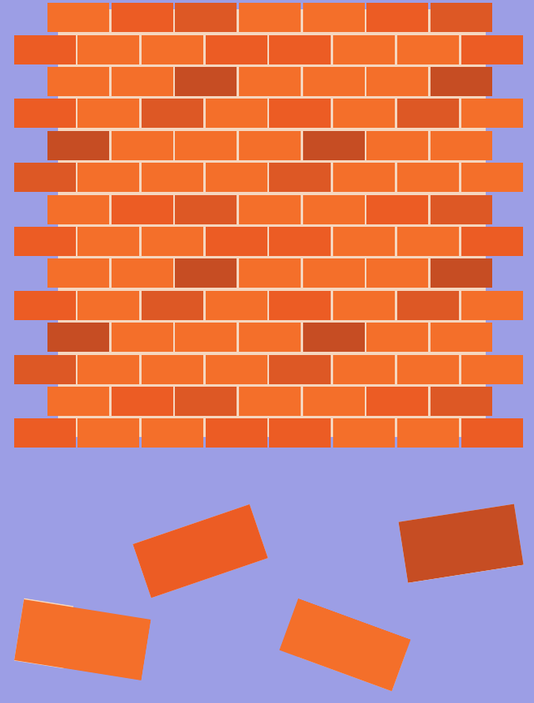
- Each of the steps from the given attachment, cut out, folded and placed into a bowl (mixed up)!

WHAT YOU'LL GET OUT OF IT

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

DECOMPOSITION

Decomposition is part of computational thinking and it can be used to break down one big task into smaller, simpler tasks. In the same way, a wall can be broken down into each individual brick. Here we can use decomposition to break down baking a cake into simpler steps!



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

KIDCODER: LET'S BAKE A CAKE!

DECOMPOSITION

WHAT TO DO

(1)

Split up into two teams and stand facing each other.

(2)

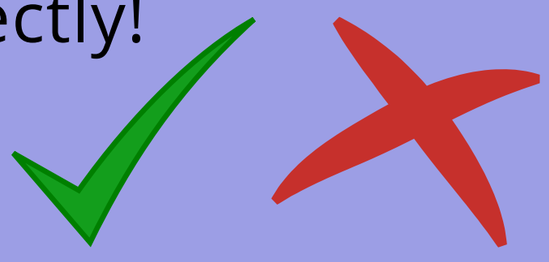
In your teams, nominate a new team member each round to pick a step from the bowl.

(3)

If you are the nominated team member, read the step out loud and try to guess the missing word to get a point! You can get help from your team if needed.

(4)

If the other team gets their guess wrong, you have a chance to steal a point if you can guess the word correctly!



(5)

Once all steps have been guessed, both team should add up their points. The team with the highest score wins!

USING IN THE CLASSROOM

In pairs, write down the completed steps and see if you can break down each step into two. You should have double the number of steps!

TAKE IT FURTHER

Using just one of the steps that your team correctly guessed, can you break it down further into 3 more steps?