

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



## DECOMPOSITION



**<5MIN**



**15MIN**

### STAGE 2

#### 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

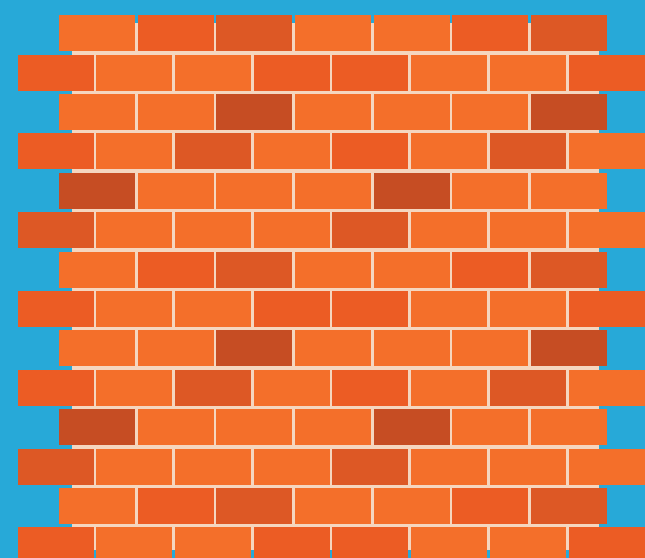
- Just a pen and paper to jot down your thoughts!

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

- Understand what it means to use decomposition
- Learn how we can use decomposition when making a cup of tea!

## 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 the task of making a cup of tea!



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## DECOMPOSITION



### WHAT TO DO

(1)

What makes up a cup of tea? We're going to use decomposition to find out!



(2)

In pairs, write a list of the ingredients that go into a cup of tea. You can ask your leader if you're not sure!



(3)

Once you've completed your list, try and think about the importance of each ingredient.



(4)

Would the tea still be the same without it? Discuss with your partner!

### USING IN THE CLASSROOM

In pairs, write a list of the ingredients that make up a cup of tea and try and rank them in order of importance. At which step for making a cup of tea is each item used?

### TAKE IT FURTHER

Let's try and decompose another drink into its different ingredients! A berry smoothie is a good example.