

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

## ABSTRACTION



**5MIN**



**15MIN**

### STAGE 2

#### AIM OF ACTIVITY



How do we decide on what we need to complete a task? Sometimes it comes naturally and other times we have to think! In both cases we are using computational thinking...

#### WHAT YOU'LL NEED

- A mug and a teaspoon - for visualisation!

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

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

### ABSTRACTION

Abstraction is part of computational thinking and we do it when we focus only on the important information that helps us to complete a task. You probably used abstraction today when choosing what utensil to eat your breakfast with! Abstraction also helps us to get rid of information we don't need and we can do this when making a cup of tea!



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## ABSTRACTION



### WHAT TO DO

(1)

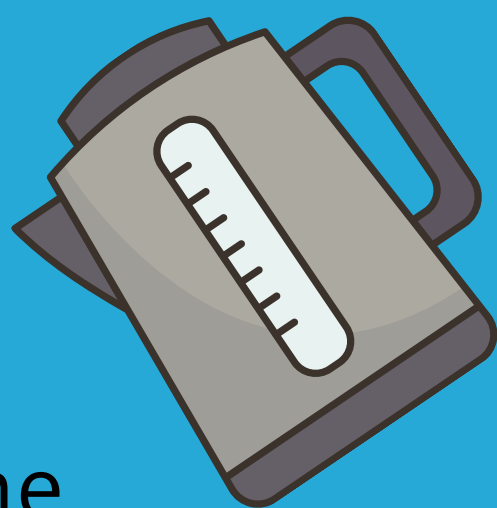
Using the mug of imaginary tea to help, we're going to use abstraction to remove all of its unnecessary detail!

(2)

Let's first look at the mug.  
Is there any particular colour or shape the mug has to be for a cup of tea? Are there any necessary requirements for the mug?

(3)

What about the liquid in the mug? What makes it tea?



(4)

Keep going until you think you have all the basic requirements for making a cup of tea!

### USING IN THE CLASSROOM

In pairs, draw and label a mug of tea in the middle of an A4 piece of paper in as much detail as you can. Add labels for things that may not be visible! Which labels are necessary for making a cup of tea no matter what?

### TAKE IT FURTHER

Can you think of a meal you have had recently? What were the basic requirements to be able to make it?