

KIDCODER: LET'S MAKE A CUP OF TEA!

ABSTRACTION



5MIN



15MIN

STAGE 1

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

- Masking tape to map out a square on the floor!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use abstraction
- Learn how to use abstraction to make 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)

When we are making a cup of tea in the kitchen, there are certain items that we need. In order to focus on these, we can forget about the items we don't need.

(2)

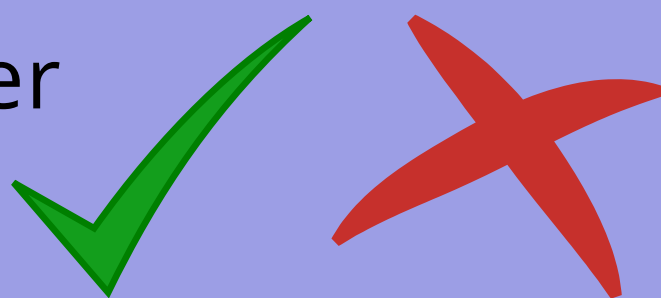
Get into two teams and stand on each side of the room, with the square on the floor in between the teams.

(3)

Each team needs to think of items found in the kitchen that we don't need to make a cup of tea.

(4)

Take it in turns for a member of each team to run into the square and shout out an item. Be quick as you have 10 seconds once the other team has said an item!



(5)

If a team can't think of any more items, or says an incorrect item, the other team wins! You can play as many times as you like.

USING IN THE CLASSROOM

In pairs, write down the items found in the kitchen needed to make a cup of tea, and the items that aren't, splitting your paper down the middle. Are there any items that could be both?

TAKE IT FURTHER

Do you think it would have been easier to play the game but by naming all the items we do need to make a cup of tea? Tell your leader what you think!