

# KIDCODER: LET'S GET DRESSED FOR SCHOOL!

## 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

- A pen and paper

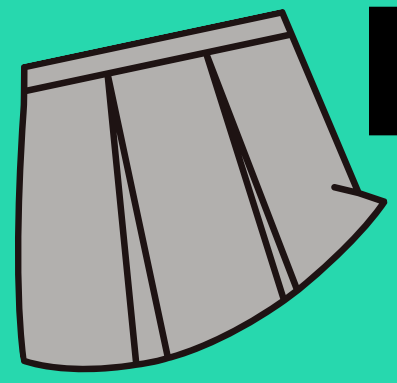
#### WHAT YOU'LL GET OUT OF IT

- Understand what it means to use algorithms
- Learn how we can apply algorithms to getting dressed for school!

## 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 getting dressed for school!





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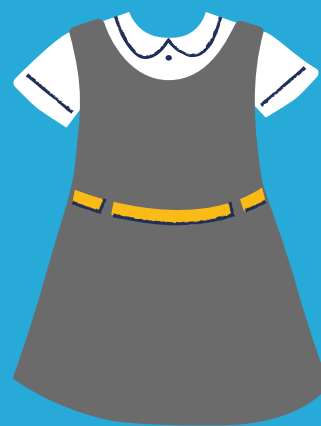
## WHAT TO DO

(1)

Sometimes when we are solving a problem, it can help to work backwards. Let's try this for getting dressed for school!



(2)



Get into small groups of 3 or 4 and think about what the first and last step of getting dressed for school could be.

(3)

Split the group into two halves – half the group should work forwards from the first step and the other half backwards from the last step.

(4)

Try to think of as many detailed steps as you can until you meet in the middle!

## USING IN THE CLASSROOM

In pairs, write out the ordered steps for getting dressed for school, but with one of you starting from the beginning and one from the end. See if you can meet in the middle and join your steps together!

## TAKE IT FURTHER

Try and swap within your group and see if you find it easier to work forwards or backwards.