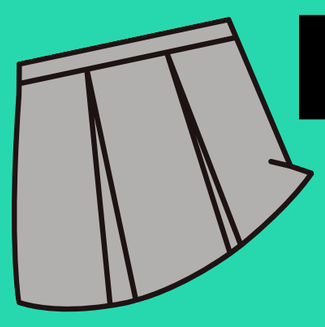
KIDCODER: LET'S GET DRESSED FOR SCHOOL!



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

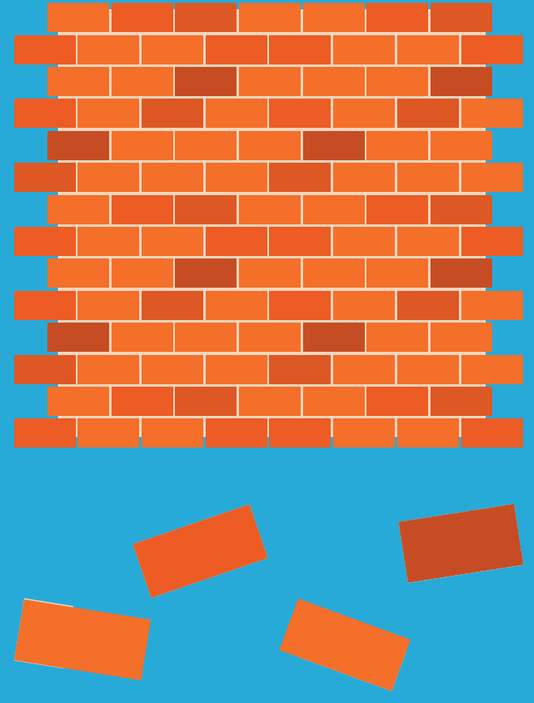
- Some pen and paper to jot down your thoughts!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use decomposition
- Learn about how we use decomposition when getting dressed for school!

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 problem of getting dressed for school!



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

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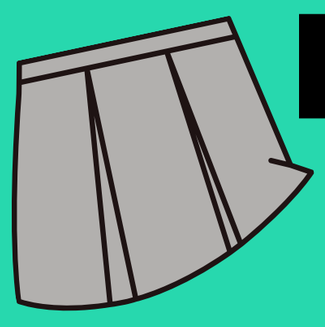


DECOMPOSITION

WHAT TO DO

(1)

To solve the problem of getting dressed for school, we can break it down into smaller problems using the 5Ws and 1H: what, why, when, where, who and how!

(2)

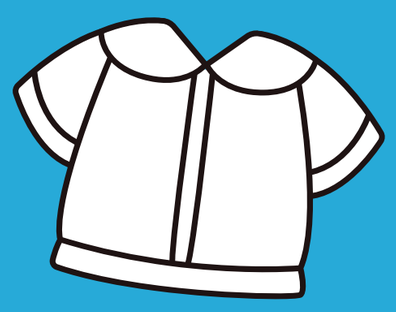
Together, let's think of the questions we need to answer before we can get dressed for school.

(3)

What can we use to get dressed for school? Why do we get dressed for school? When do we get dressed for school?

(4)

Try and think of some questions to answer the other Ws and 1Hs - keep going until you have all the knowledge needed to get fully dressed for school!



(5)

Can you think of any more questions to ask for either of the 5Ws and 1H?

USING IN THE CLASSROOM

In pairs, come up with five questions based on just one of the 5Ws and 1H. Swap them with another pair and see if they can get them all right.

TAKE IT FURTHER

Focusing on an answer to just one of the questions that were asked earlier, try and break it down even further by using the 5WS and 1H!