

KIDCODER: LET'S BRUSH OUR TEETH!

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

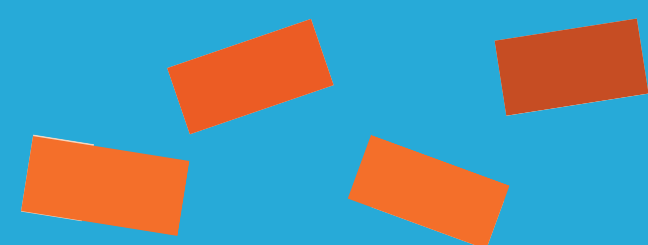
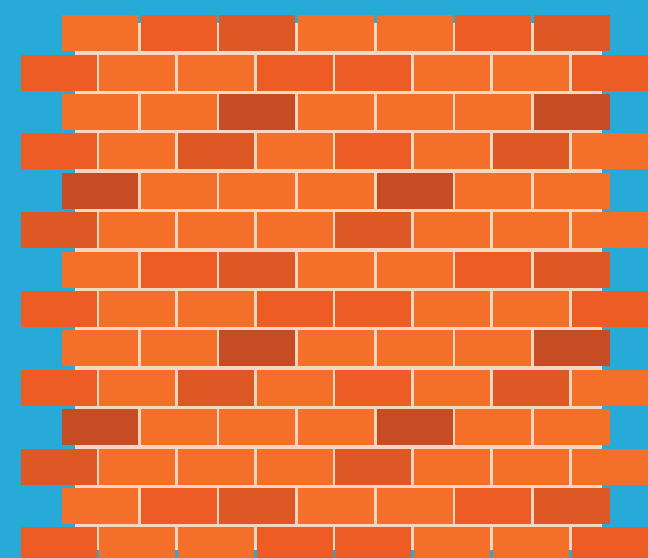
- Some pen and paper to jot down your thoughts!

WHAT YOU'LL GET OUT OF IT

- Understand what it means to use decomposition
- Learn about how we use decomposition when brushing our teeth!

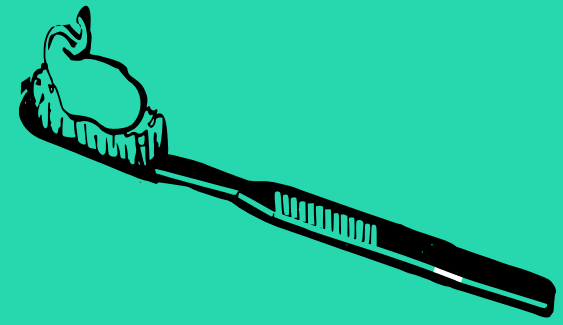
DECOMPOSITION

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 brushing our teeth!



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DECOMPOSITION



WHAT TO DO

(1)

To solve the problem of brushing our teeth, 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 brush our teeth.

(3)

What can we use to brush our teeth? Why do we brush our teeth? When do we brush our teeth?

(4)

Try and think of some questions to answer the other Ws and 1H - keep going until you have all the knowledge needed to brush your teeth!



(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!