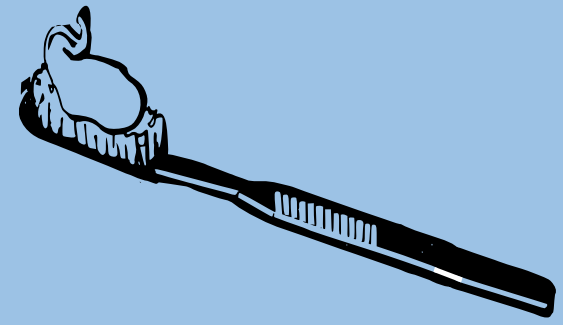


KIDCODER: LET'S BRUSH OUR TEETH! ALGORITHMS



<5MIN



20MIN

STAGE 1

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

- Just yourselves!

WHAT YOU'LL GET OUT OF IT

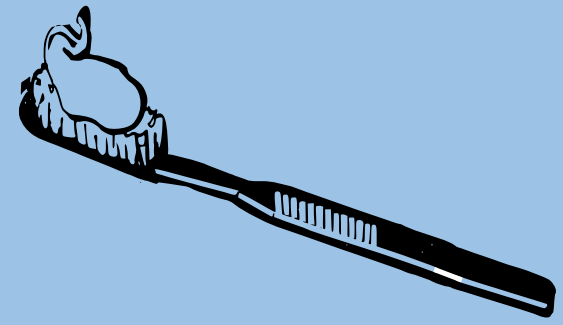
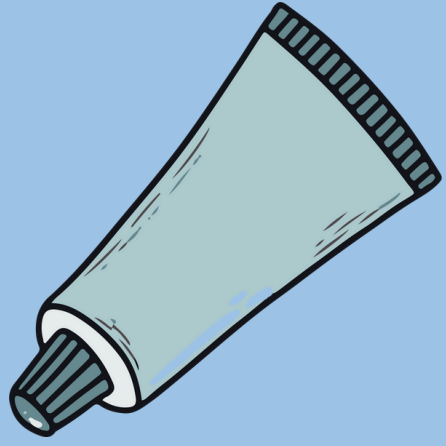
- Understand what it means to use algorithms
- Learn how to use an algorithm to brush our teeth!

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 brushing our teeth!



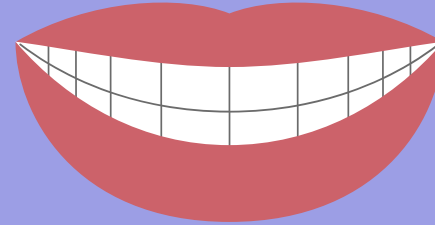
KIDCODER: LET'S BRUSH OUR TEETH! ALGORITHMS



WHAT TO DO

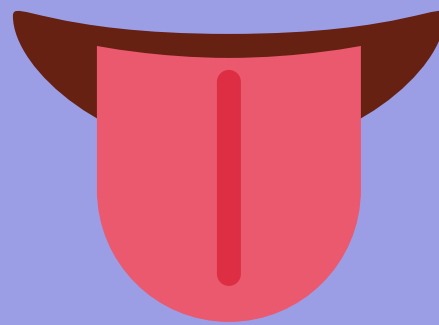
(1)

In order to brush our teeth in the right way, let's work backwards!



(2)

Sometimes looking at the solution to see how we can get there helps us solve the problem! What would be the solution for brushing our teeth?



(3)

Going round the room, in small groups, try and think of what we need to do in order to get to our current point.

(4)

Once you find yourself at the beginning – “Go to the bathroom”, perhaps – you'll know you've completed the algorithm to brush your teeth!

USING IN THE CLASSROOM

In pairs, draw a picture to represent each step in brushing your teeth. Swap your pictures with another pair and see if you can place them in the correct order!

TAKE IT FURTHER

Can you think of any other problems where starting with the final solution can help us solve it? Maths equations can be a good example.