

KIDCODER: DECOMPOSITION



<5MIN



20MIN

STAGE 3

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

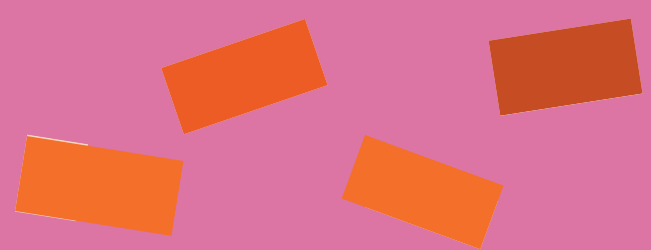
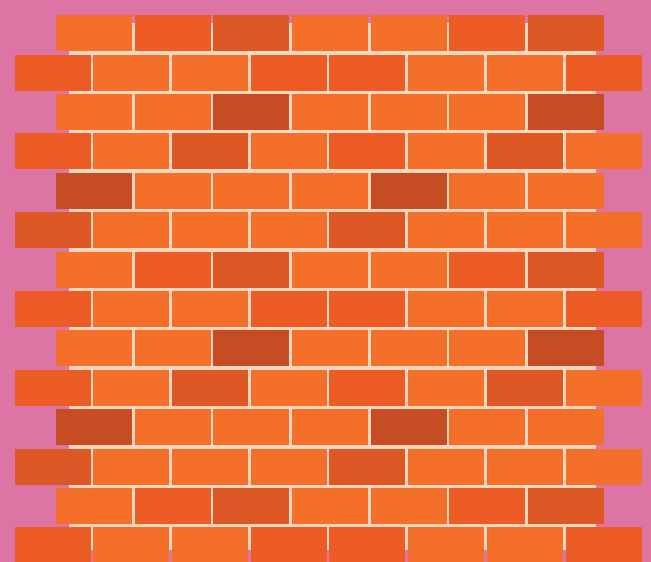
- Just yourselves!

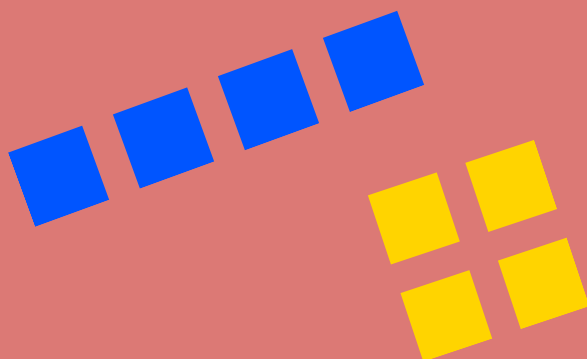
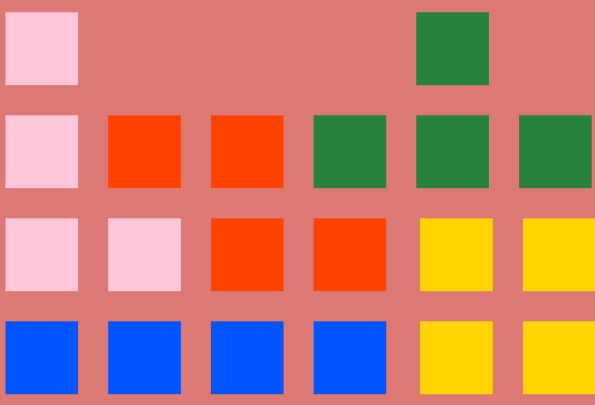
WHAT YOU'LL GET OUT OF IT

- Understand what it means to use decomposition
- Learn how we can use decomposition in our daily lives!

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.





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WHAT TO DO

(1)

When problems seem very big and overwhelming, breaking it down into smaller problems can make them much easier to solve.



(2)

Think about what you want to be or do when you grow up. Be as imaginative as you can – it’s your dream job!

(3)

This may seem like one big job very far into the future, but by breaking down we can see that there are lots of smaller jobs that will help you to get the big one!

(4)

Let’s break down our dream job using the 5Ws and 1H so we can get a better idea. For example, if you want to be a doctor: Where do you want to work? What kind of doctor do you want to be? Remember, it’s okay if you’re not sure!

USING IN THE CLASSROOM

In as many steps as you can think of, try and break down your actions from when you woke up until right now! What is the importance of using decomposition in our daily lives? Discuss with your partner and write down what you think!

TAKE IT FURTHER

Breaking down problems into smaller, easier problems can help us realise that they aren’t as difficult as we first thought! Can you think of a situation that may be less difficult once broken down? Discuss with your leader!