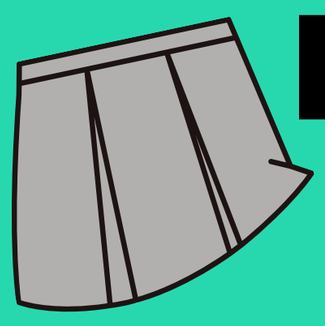
KIDCODER: LET'S GET DRESSED FOR SCHOOL!



ABSTRACTION

10MIN

20MIN

STAGE 2

AIM OF ACTIVITY

How do we decide on what we need to complete a task? Sometimes it comes naturally and other times we have to think! In both cases we are using computational thinking...

WHAT YOU'LL NEED

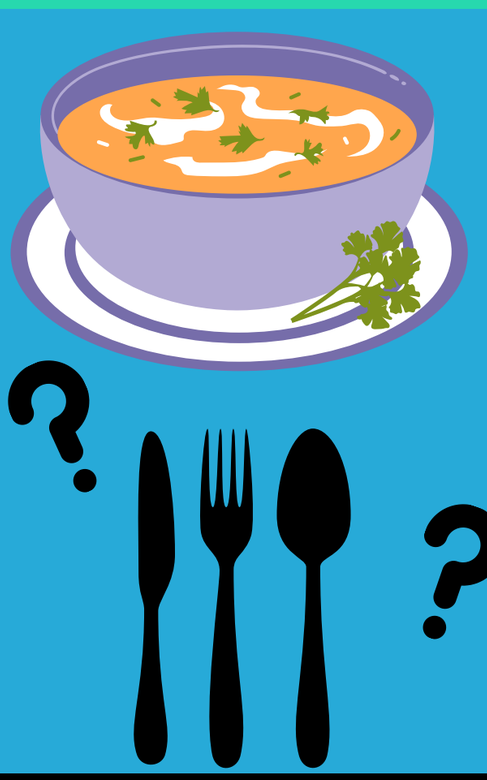
- The items that we can use to get dressed for school: socks, school shoes, a school jumper, a school tie.

WHAT YOU'LL GET OUT OF IT

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

ABSTRACTION

Abstraction is part of computational thinking and we do it when we focus only on the important information that helps us to complete a task. You probably used abstraction today when choosing what utensil to eat your breakfast with! We're going to use abstraction to help us choose the most important items for getting dressed for school!



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

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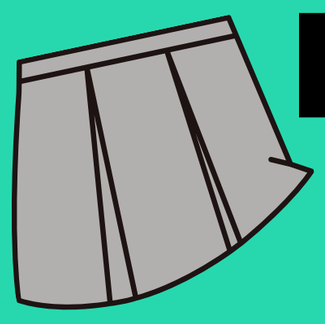


ABSTRACTION

WHAT TO DO

(1)

Stand in a circle with the items laid out in the middle.

(2)

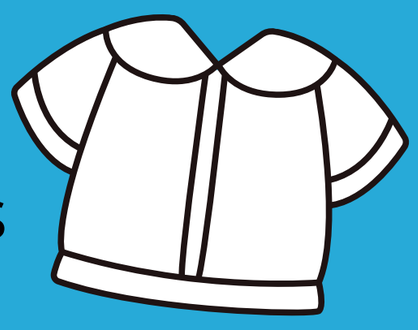
Everyone should stand behind the item they think is the most important to get dressed for school.

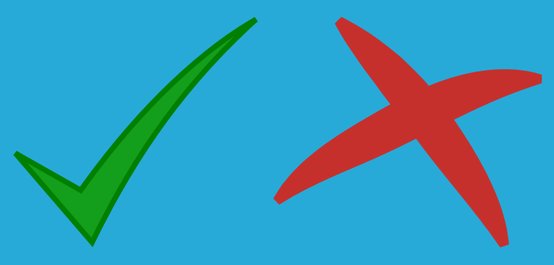
(3)

At least one person from each queue should say why they chose the given item as the most important.

(4)

The item with the most votes should be removed from the middle of the circle. Keep going until there's only one item left!





(5)

Do you notice how the size of the queues change as you keep playing? What do you think this means?

USING IN THE CLASSROOM

Write two paragraphs describing how to get dressed for school, one very simple and one very detailed. Which one do you prefer and why? Are there any cases where the other paragraph would be preferred?

TAKE IT FURTHER

Let's take the first item removed from the circle and the last item removed from the circle. Why is it important to focus on one and not the other when solving the task of getting dressed for school?

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