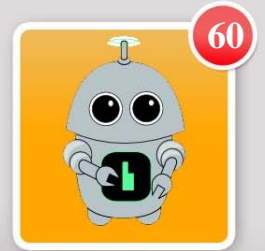
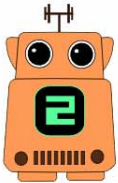




Preparation



Learning



Using Chocolate Bars to learn about Algorithms

DFE Computing Curriculum Subject Content Covered:

Key Stage 1 Subject Content:

- understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- create and debug simple programs

Resources and Preparation:

You will need:

- A chocolate bar - sliced through
- Large paper and pens for the students
- Some idea of the outcome if students need directing
- Possibly a visual aid of a chocolate factory production line?

This (from the sweet factory group) may help too: <https://docs.google.com/file/d/0B24Znho85BCTdnFzTWxsNHNsS1U/edit?usp=sharing>

Lesson Outline:

Show the students the inside of a Chocolate Bar. Ask them to think about how this Chocolate Bar may have been made. What stages did it go through?

Now ask the students to use their ideas to develop a list of instructions for creating the chocolate bar (this is their Algorithm).

Further development:

Students could now use their list of instructions to actually make the chocolate bar.

Students could also modify their algorithm after trying it out for real. They could give it to another class to try out!

This lesson would best suit...

Girls/Less able/All!



Resource Contributor/s:
Omar, Julia, Kelly and Stacey