Shape Robotics Review by Harvey Pole

I had a lot of fun doing this! My mum was the robot. I chose a Victoria sponge as it is my favourite cake and I created a Union Jack on the top to remember VE Day. I've included some photos, it was tasty!

Coding the Robot

I hoped that my code wouldn't have any mistakes in it, but it turned out there were a few things that needed changing:

• DIP the kitchen roll into margarine should have been DIP the **Torn** kitchen roll into margarine. Otherwise the whole kitchen roll will get dipped!

• After pouring an ingredient out of the bowl it needed to be placed back onto the **scales** so it could be used again.

• I realised that I had asked the robot to measure out the margarine by tilting the Margarine into the bowl! I changed this to using a knife to scoop it out.

• My first idea to get the eggs into the mixing bowl was to squash the egg through a sieve over the bowl. But I found out that eggs are too hard to squash by a mum-bot! Also the squashed egg is too thick to go through the sieve. So I changed the code to tell the robot to crack the egg on the side of the mixing bowl then hold it over the bowl and let the egg drip in.

A few things about the robot:

It will need to be taught the amount of pressure it needs to use to crack an egg on the side of a bowl. The robot successfully measured ingredients, but may need extra coding if weighing out small amounts. There will be mess to clear up and washing-up to do so it should be coded to do that as-well!

Having a Robot at home

It would be good to have a robot to help me with some jobs around the house!

Pros
• Can get the robot to cook so you don't have to
• The robot can beat or whisk things without getting tired and chop quickly
• Can cook or bake anytime.

Cons
• The robot has to be coded every time there is a different recipe. Takes up a lot of time!
• Even baking a simple cake takes a lot of code
• The robot does not know how to adapt a recipe if it is not quite right
• If a robot does the baking you don't get to lick the bowl!