

Prize Winner

Computer Programming, Apps & Robotics

Year R-2

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Name of Robot: Blinky the Teeth Cleaning Robot

Purpose of Robot: Teeth brushing

Potential applications:

- If you can't bend your hands or can't get a grip on a tooth brush -
- If people can't open their mouths properly
- When kids can't be bothered doing their teeth

Type of robot used:

-Codey Rocky and a computer

How does Blinky the Teeth Cleaning Robot work:

-It works with a colour sensor to go only on white and to stop on red and turns and goes forward on the white.

Instructions:

- Turn on Blinky using the power button on the left-hand side
 Put it on the mouth
 Then press C
 This should go for 2 minutes

- 5. To turn it off press button A or turn off the power

Room for improvement:

- Blinky the Teeth Cleaning Robot does not have bristles \rightarrow you could put bristles on it with suction cups
- Blinky is too big \rightarrow It needs to be a mouth sized robot, about 1cm -
- Blinky has to be safe \rightarrow Its bristles have to be smooth. It can't have button batteries in case you swallow it - it should be powered by electricity. If Blinky had a rope, you could pull it out if it went down your airway
- Blinky could have an alarm to tell you that it is time to brush your teeth. This could help kids _ and adults if they forget to brush their teeth
- Blinky needs something to help it grip your teeth -

Acknowledgements:

- 1. Mum helped me type my report
- 2. Dad helped me to solve problems with Blinky

when button C is pressed
□ play sound hello ▼
🚆 blink
wait 5 seconds
repeat until imer = 120 or button A ▼ is pressed?
<pre>if move forward ● at power 10 % else if move forward ● 90 degrees until done # move forward ● at power 10 %</pre>
<pre> Stop moving Stop all ▼ </pre>