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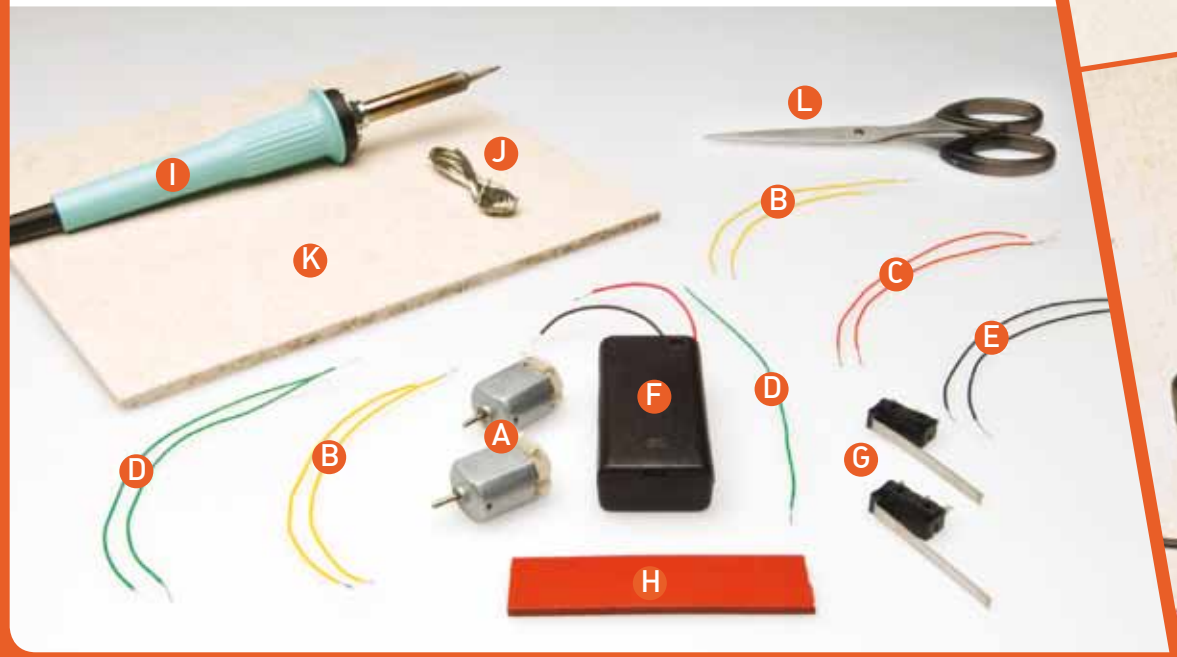
Robot Bug

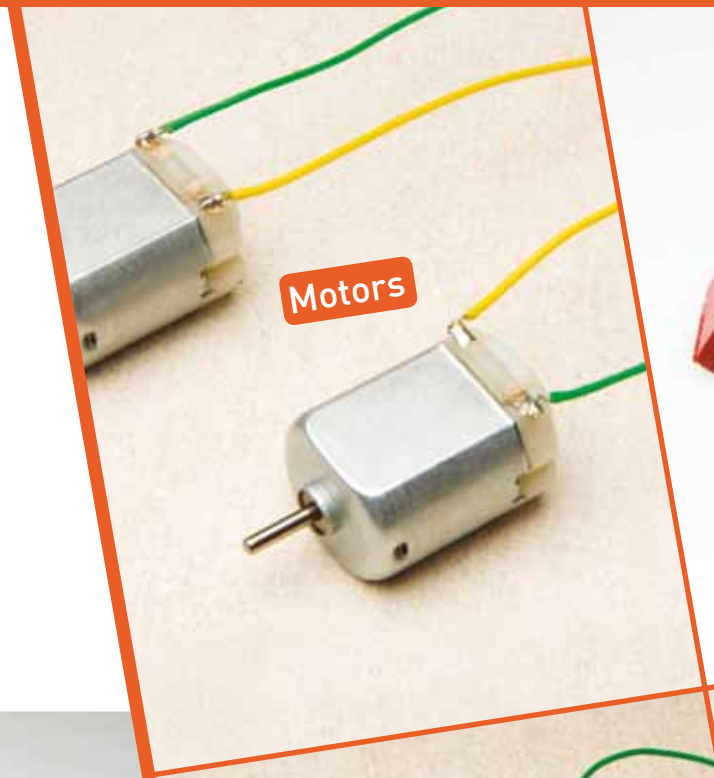
The initial steps towards making your robot

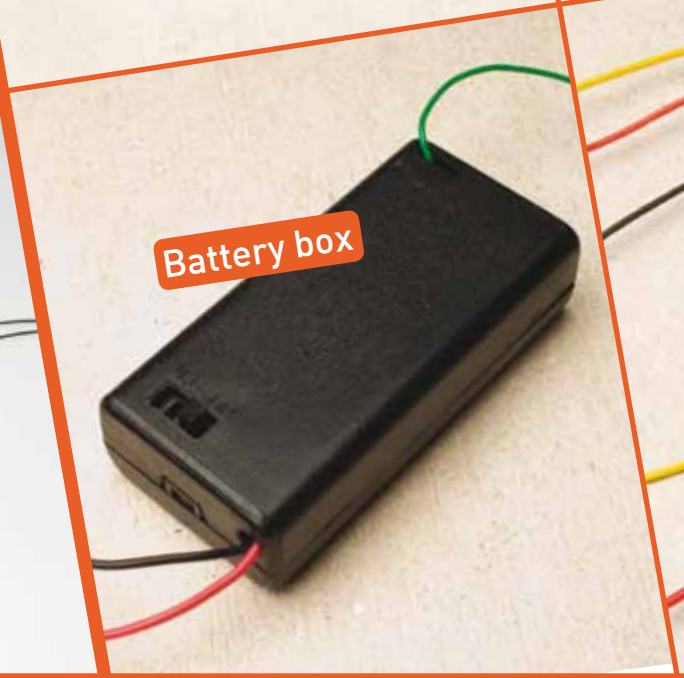
Educators' notes at www.sciencemuseum.org.uk/educatorsresources

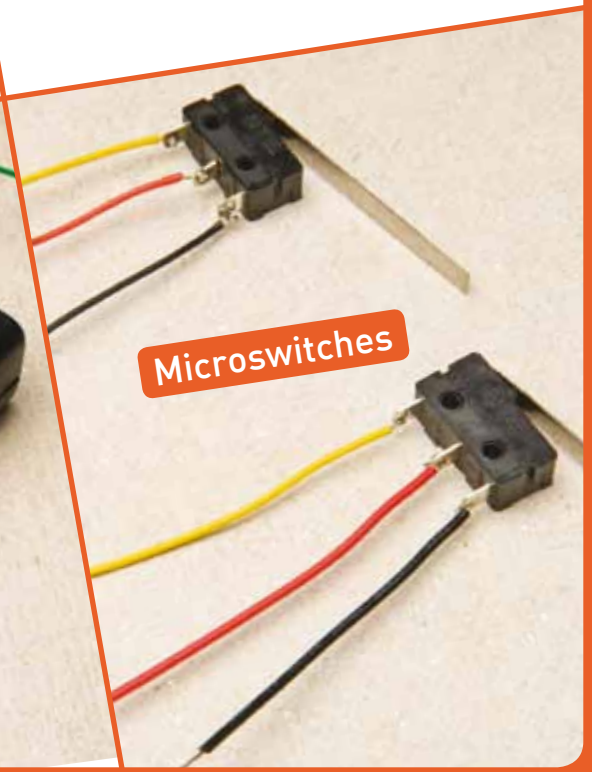
GRAB THIS STUFF...

- A 2 motors
- B 4 yellow wires
- C 2 red wires
- D 3 green wires
- E 2 black wires
- F 1 battery box
- G 2 microswitches
- H Foamex
- I Soldering iron
- J Solder
- K Heatproof mat
- L Scissors









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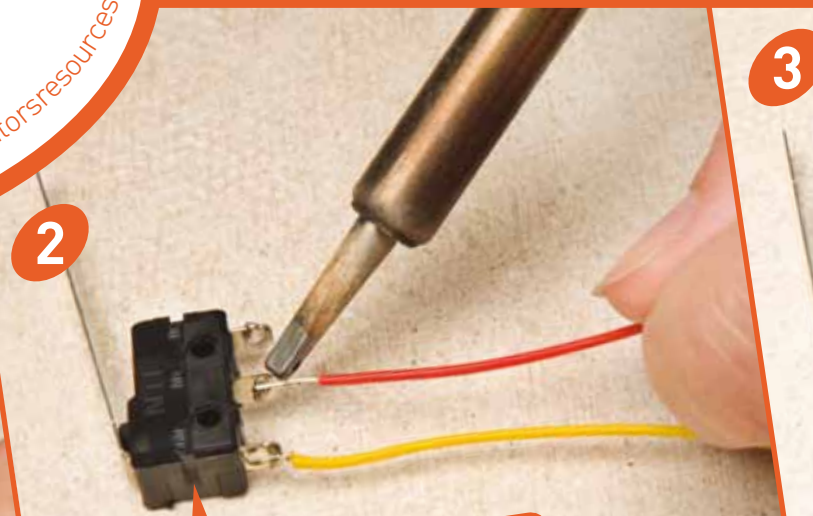
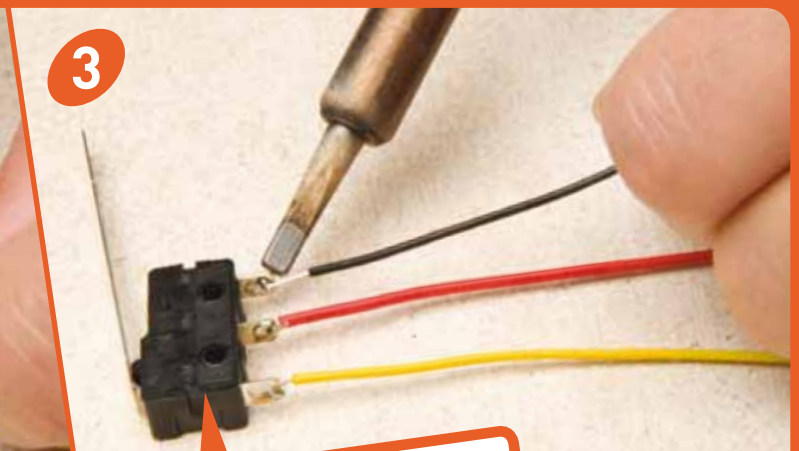
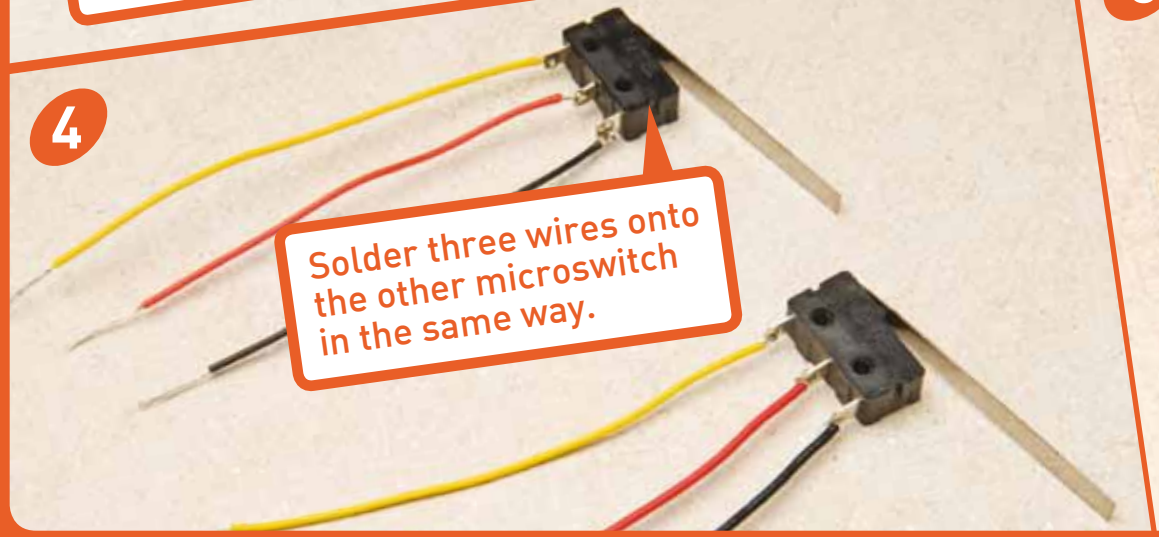
1 On the microswitch, solder a yellow wire onto the short metal terminal that is closest to where the long metal antenna meets the plastic.



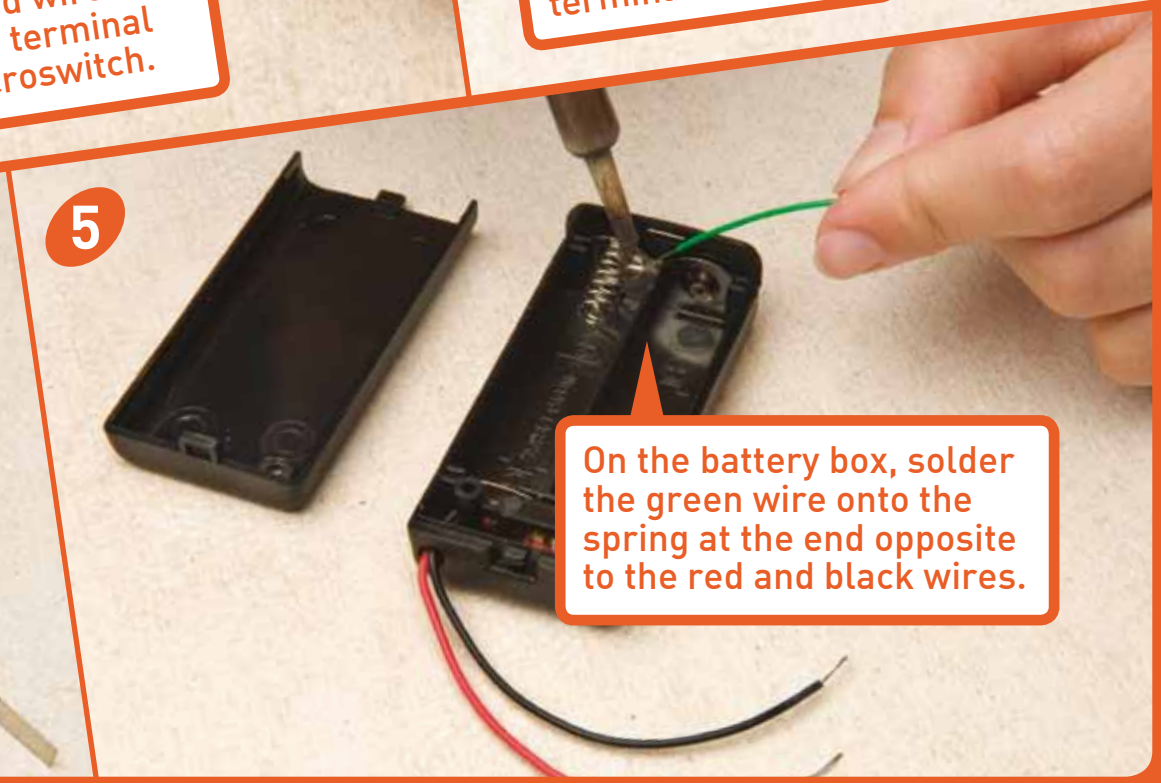
2 Solder a red wire onto the middle terminal on the microswitch.



3 Solder a black wire onto the remaining terminal.



4 Solder three wires onto the other microswitch in the same way.



5 On the battery box, solder the green wire onto the spring at the end opposite to the red and black wires.

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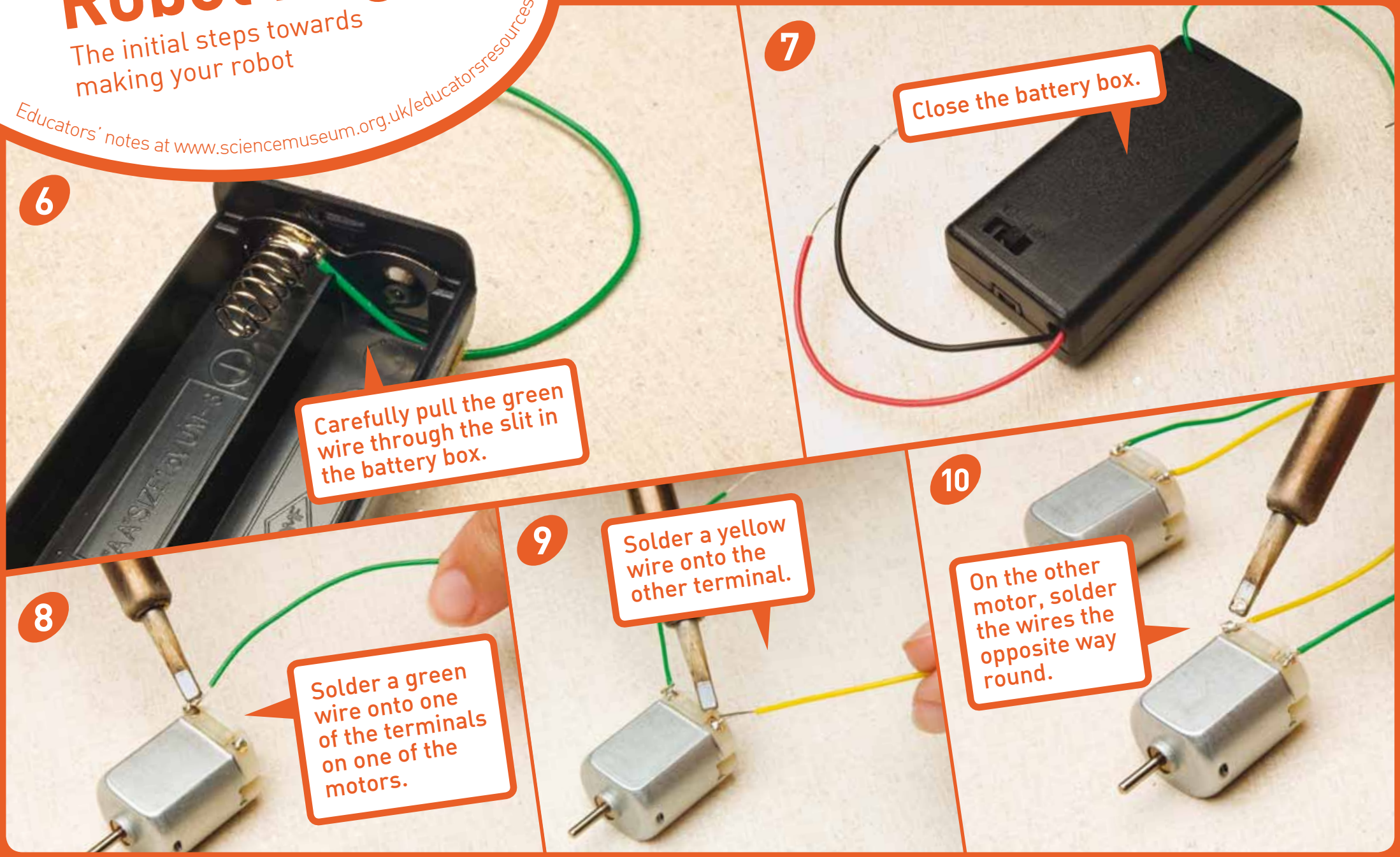

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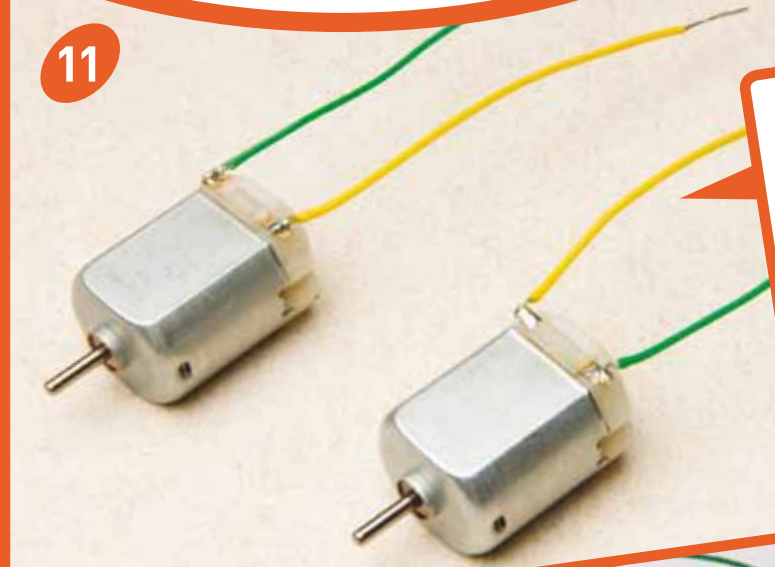

Now you should have one motor with a yellow wire on the left and a green wire on the right, and another motor with a yellow wire on the right and a green wire on the left.

12

Now cut the Foamex into a rectangle measuring 80 x 20 mm, using scissors or a band saw.

13

Warm the Foamex in hot water. Quickly dry it and use the battery box as a guide to bend it into shape.

14

Your Foamex should be this shape. Now you are ready to make your robot!