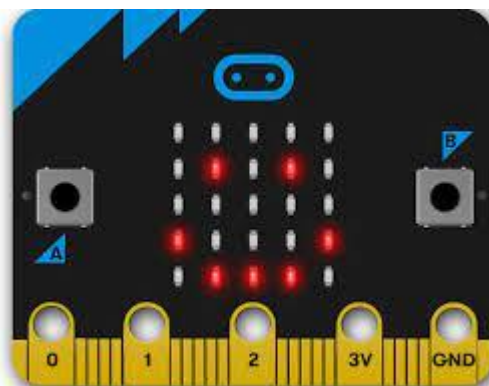




קורס 216015, אביב 2021 חינוך מדעי וטכנולוגי בעידן המהפכה התעשייתית הרביעית

הפעלת מנוע עם micro:bit

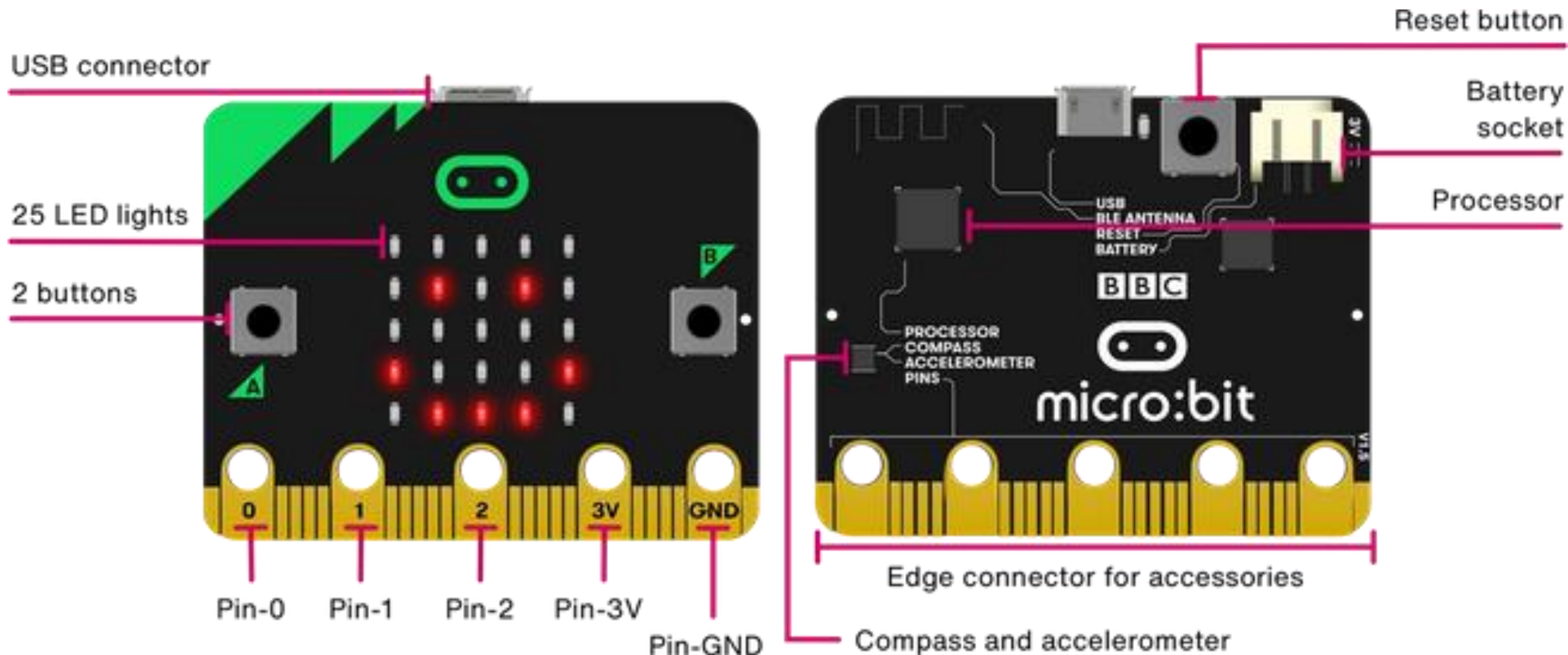


The DC motor we will use

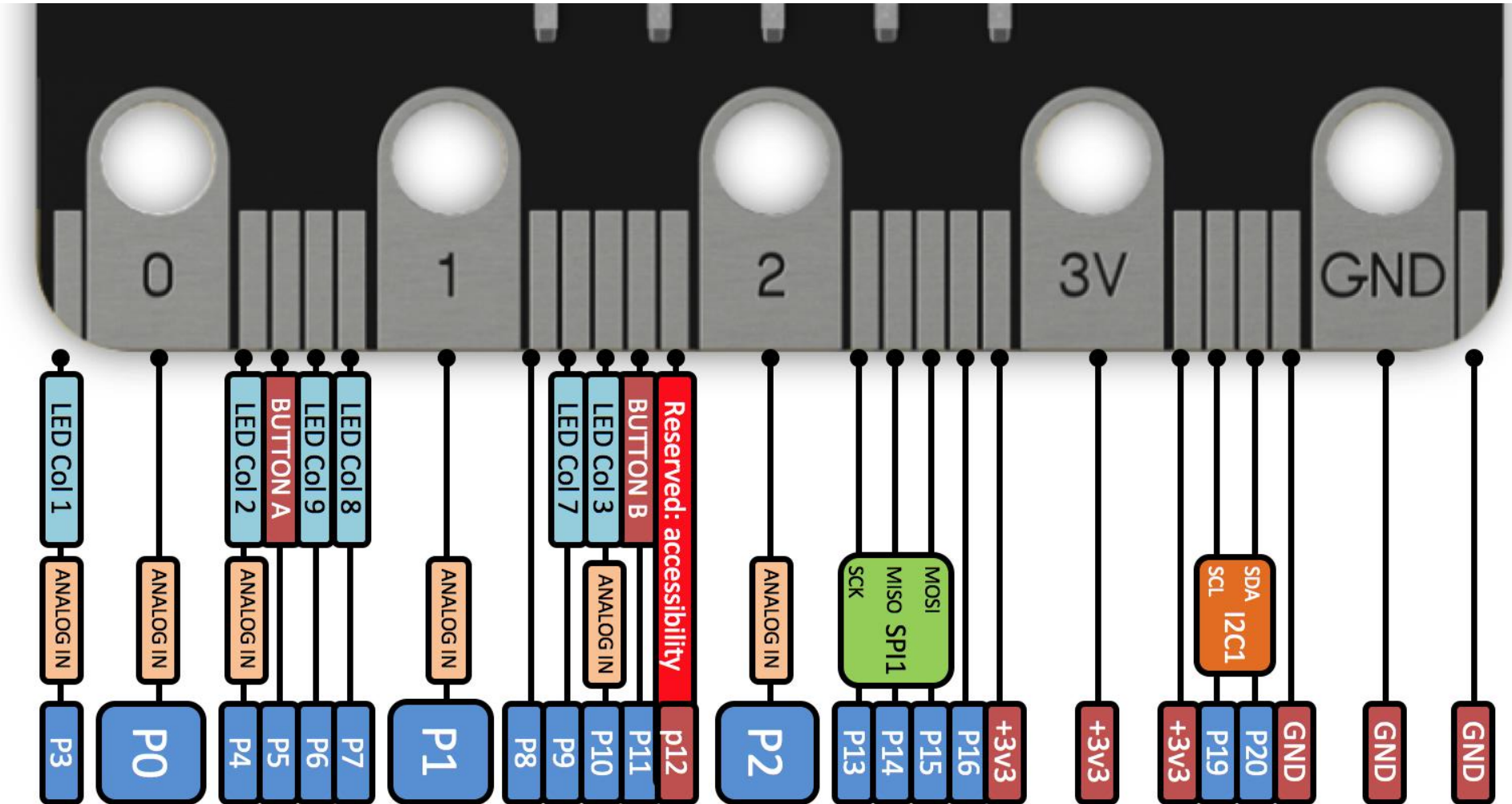
 71427	Torque	Rotation speed	Current	Mechanical power	Electrical power	Efficiency
4.5 V	2.25 N.cm	57 rpm	0.12 A	0.13 W	0.54 W	24 %
7 V	2.25 N.cm	160 rpm	0.12 A	0.38 W	0.85 W	45 %
9 V	2.25 N.cm	250 rpm	0.12 A	0.58 W	1.1 W	54 %
12 V	2.25 N.cm	375 rpm	0.12 A	0.88 W	1.5 W	61 %

9 V supply	 71427
Stalled torque	6 N.cm
Stalled current	360 mA

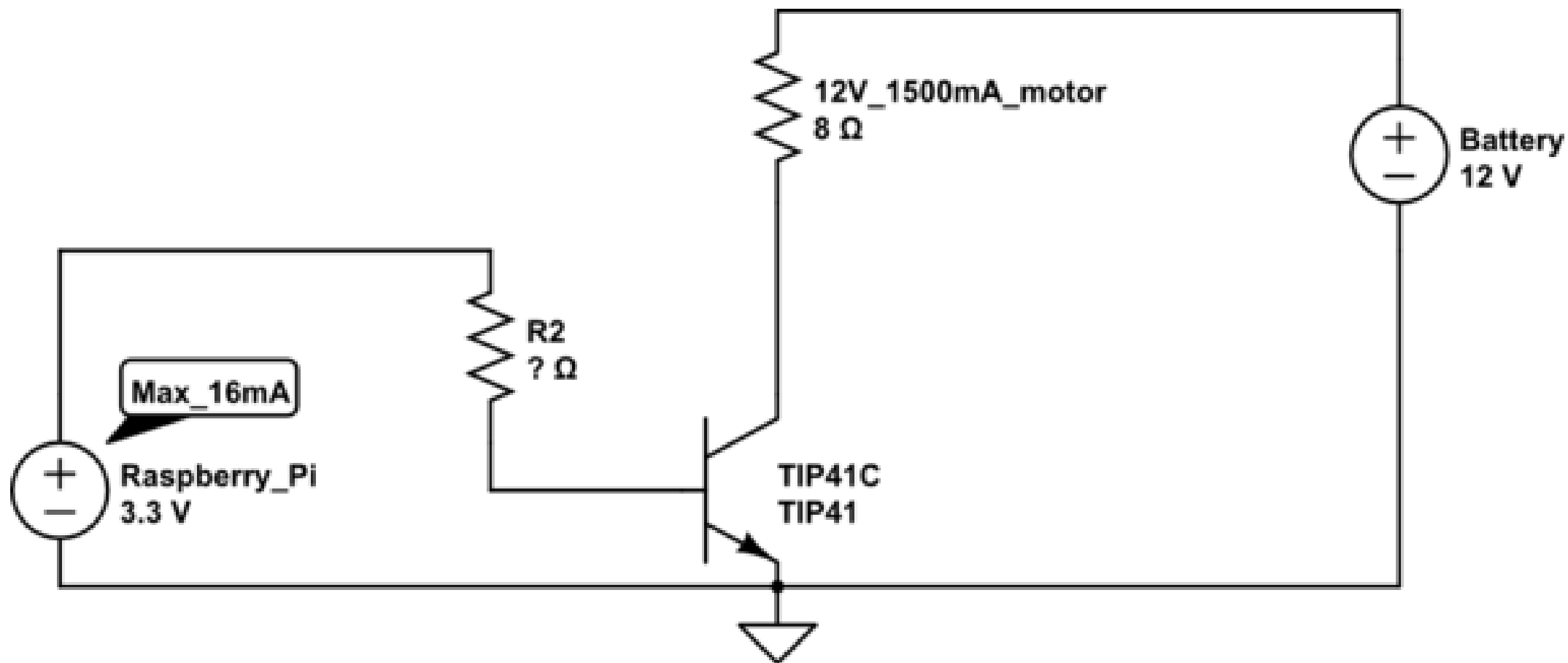
How to drive a DC motor with micro:bit



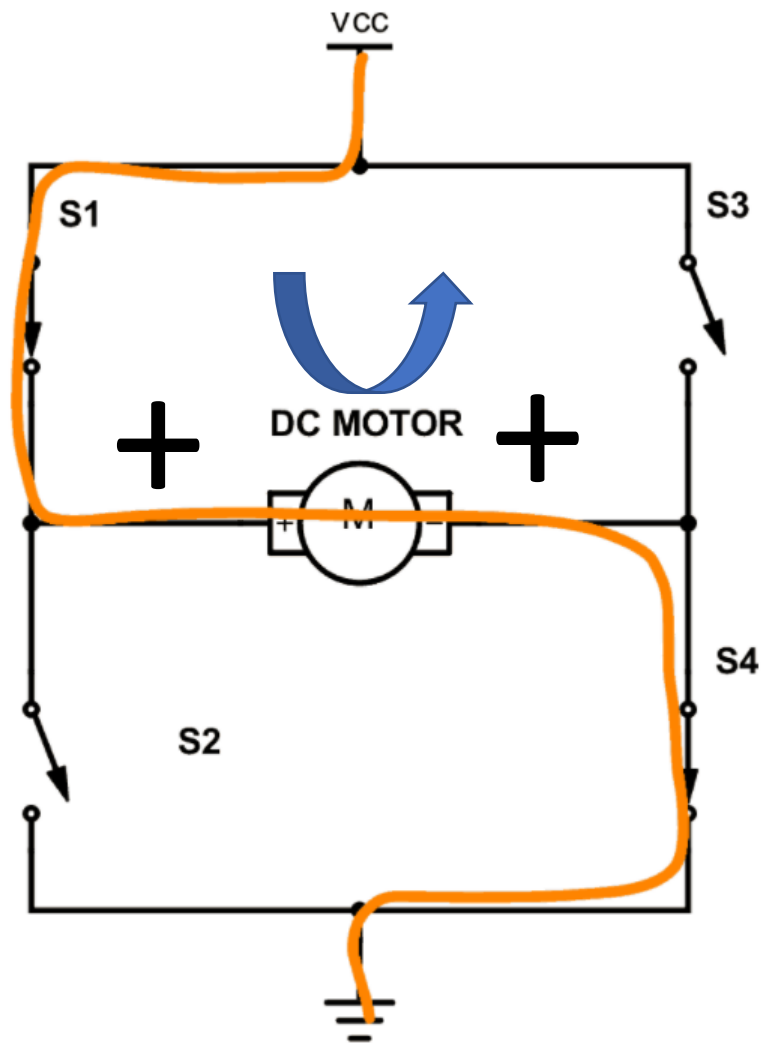
How to drive a DC motor with micro:bit



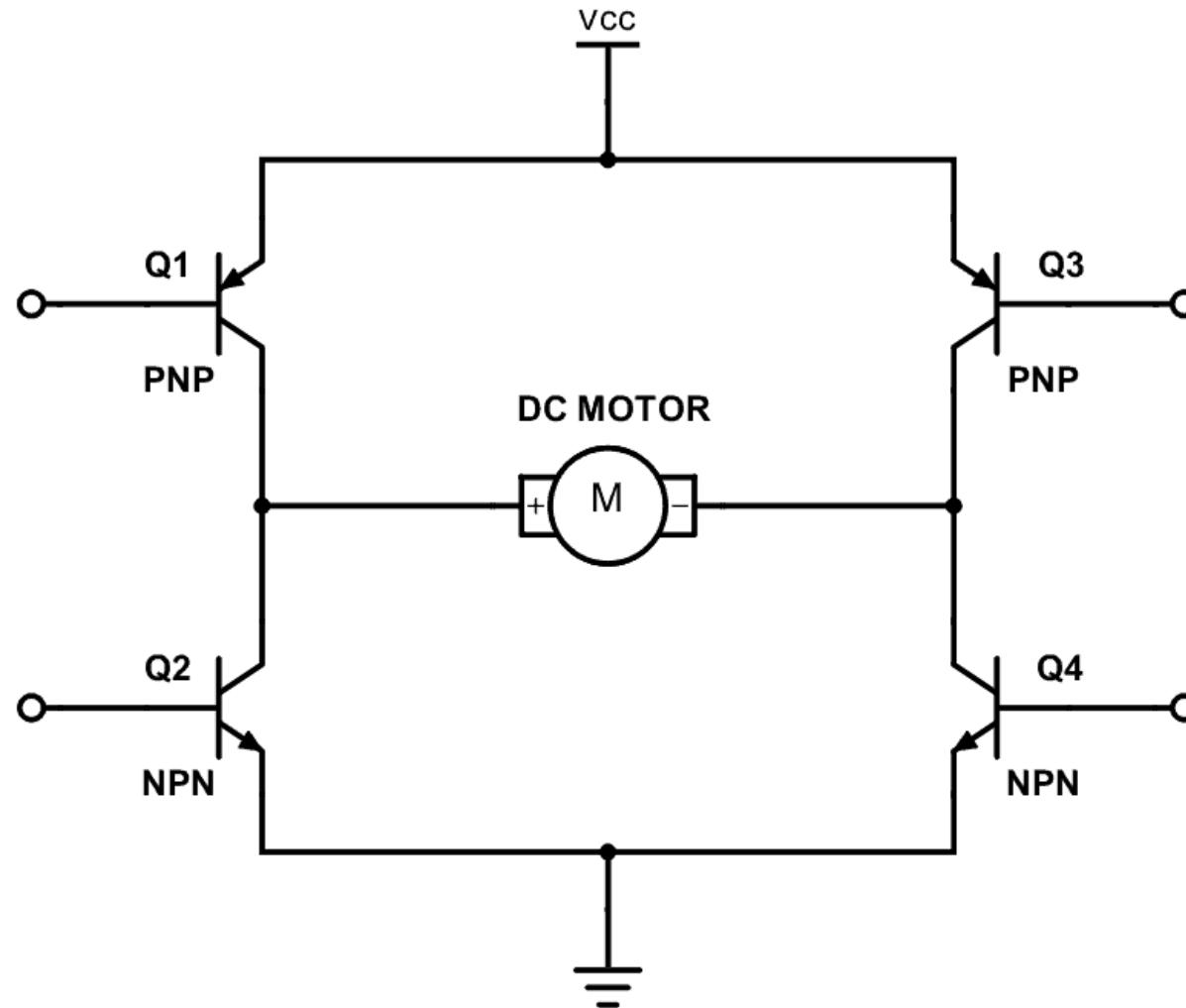
Using a transistor



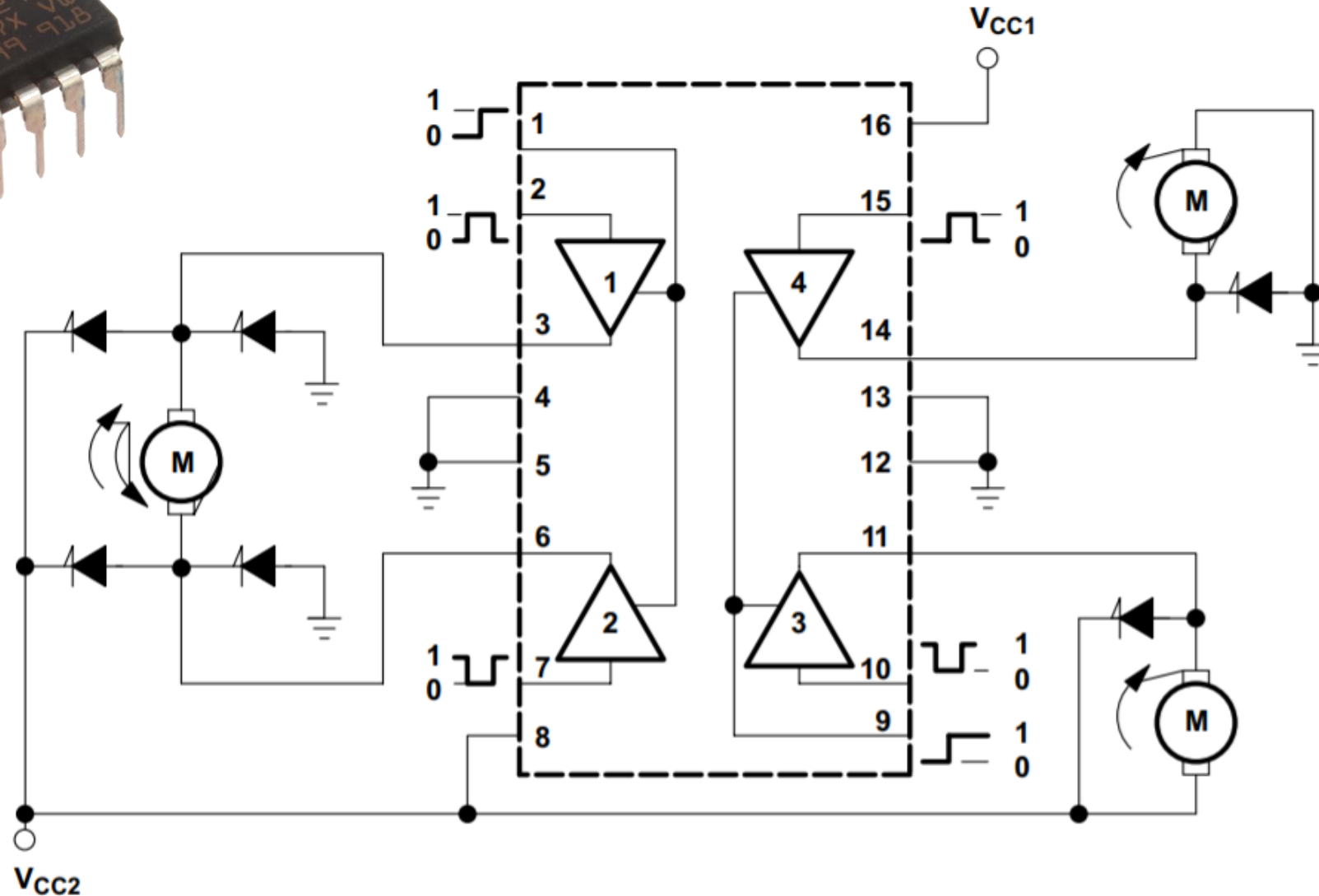
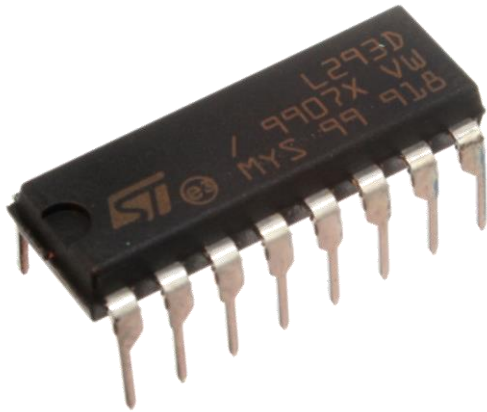
H-bridge



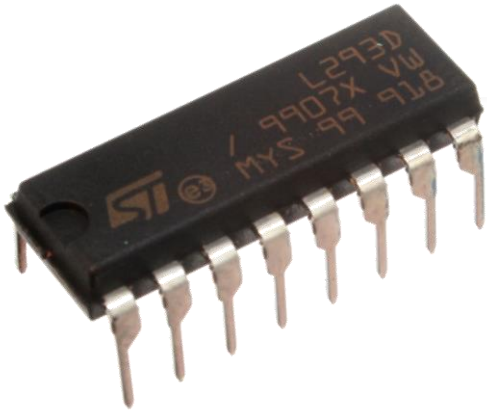
H-bridge



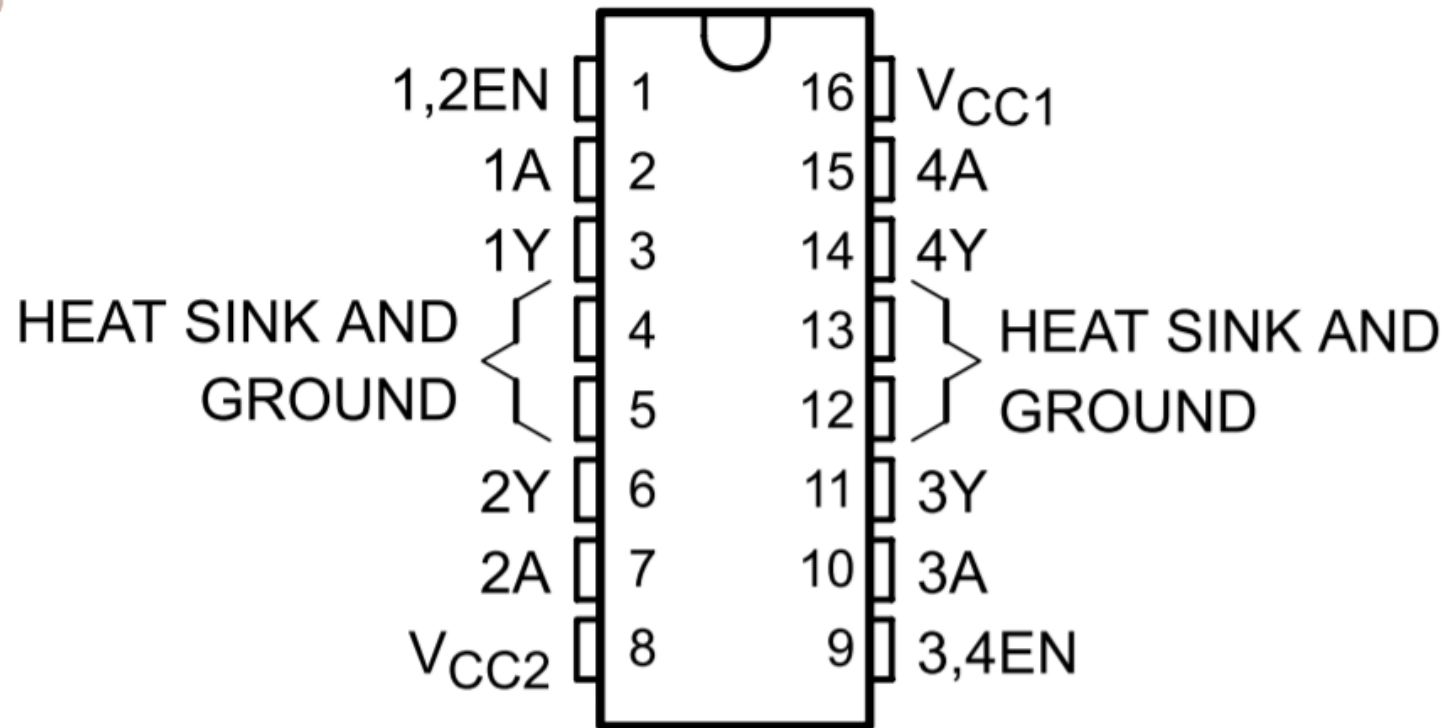
H-bridge L293D (SN754410)



H-bridge L293D (754410)



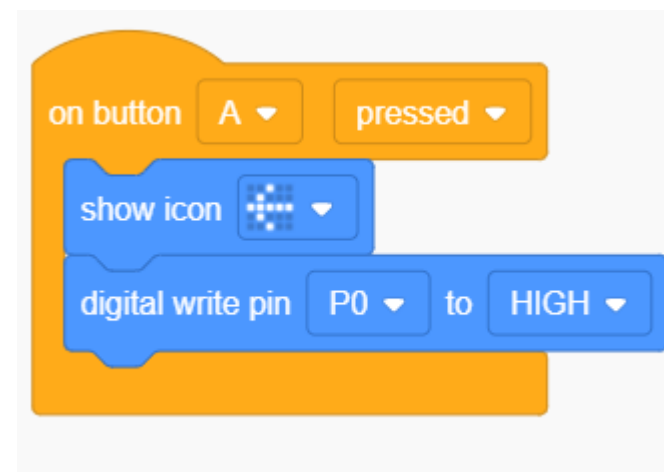
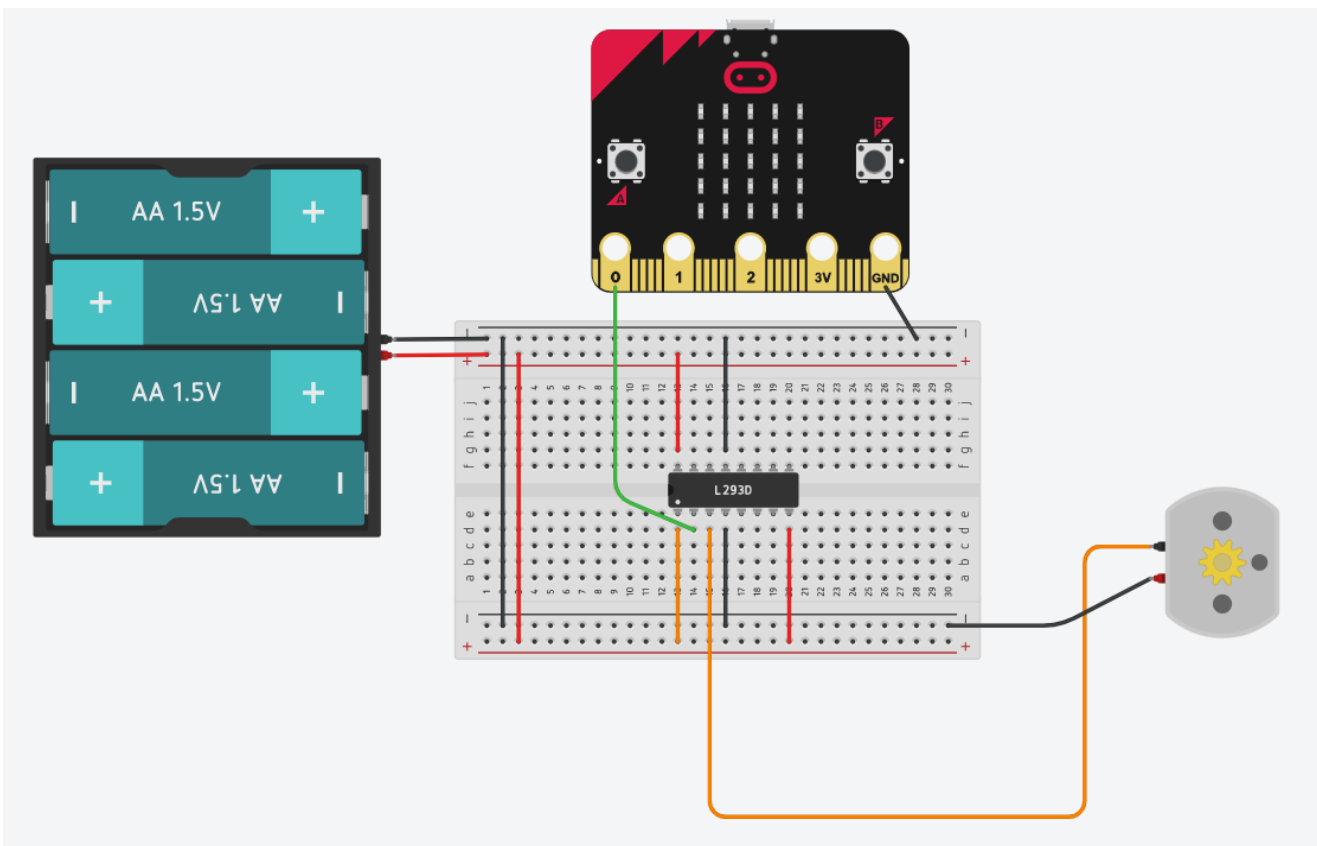
**NE PACKAGE
(TOP VIEW)**



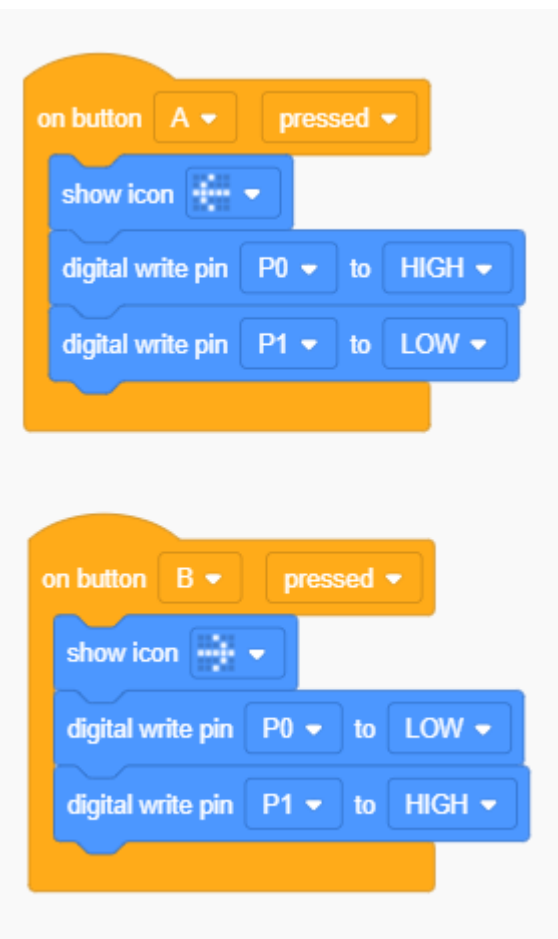
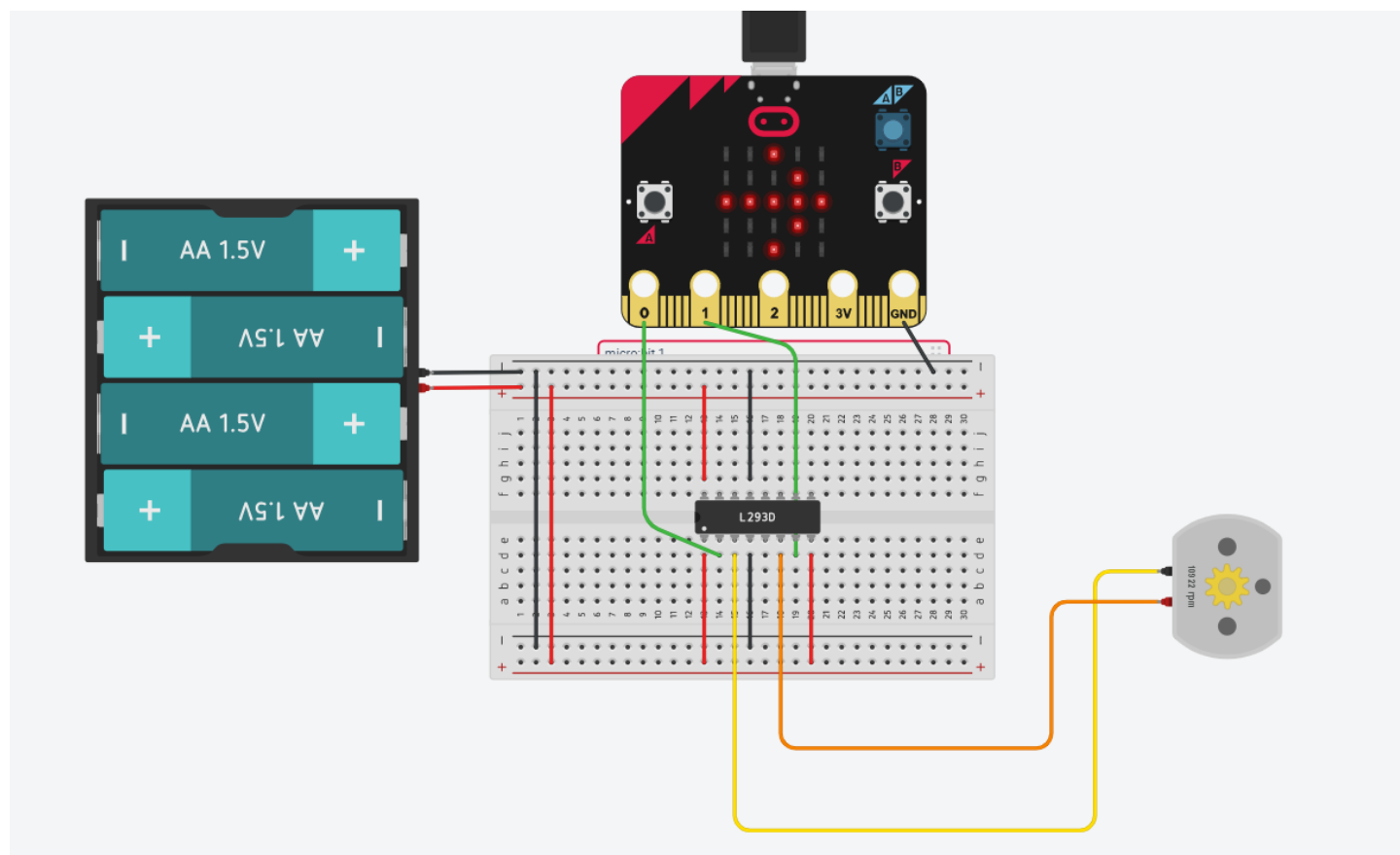
Pin Functions



הפעלה חד כיוונית עם חצי H-bridge



הפעלה דו כיוונית עם שני חצאי H-bridge



The image features a central black circle containing the text "The End." in a white, cursive script. A white underline is positioned beneath the text. The background consists of concentric circles in various shades of brown and orange, creating a hypnotic or tunnel-like effect.

The End.