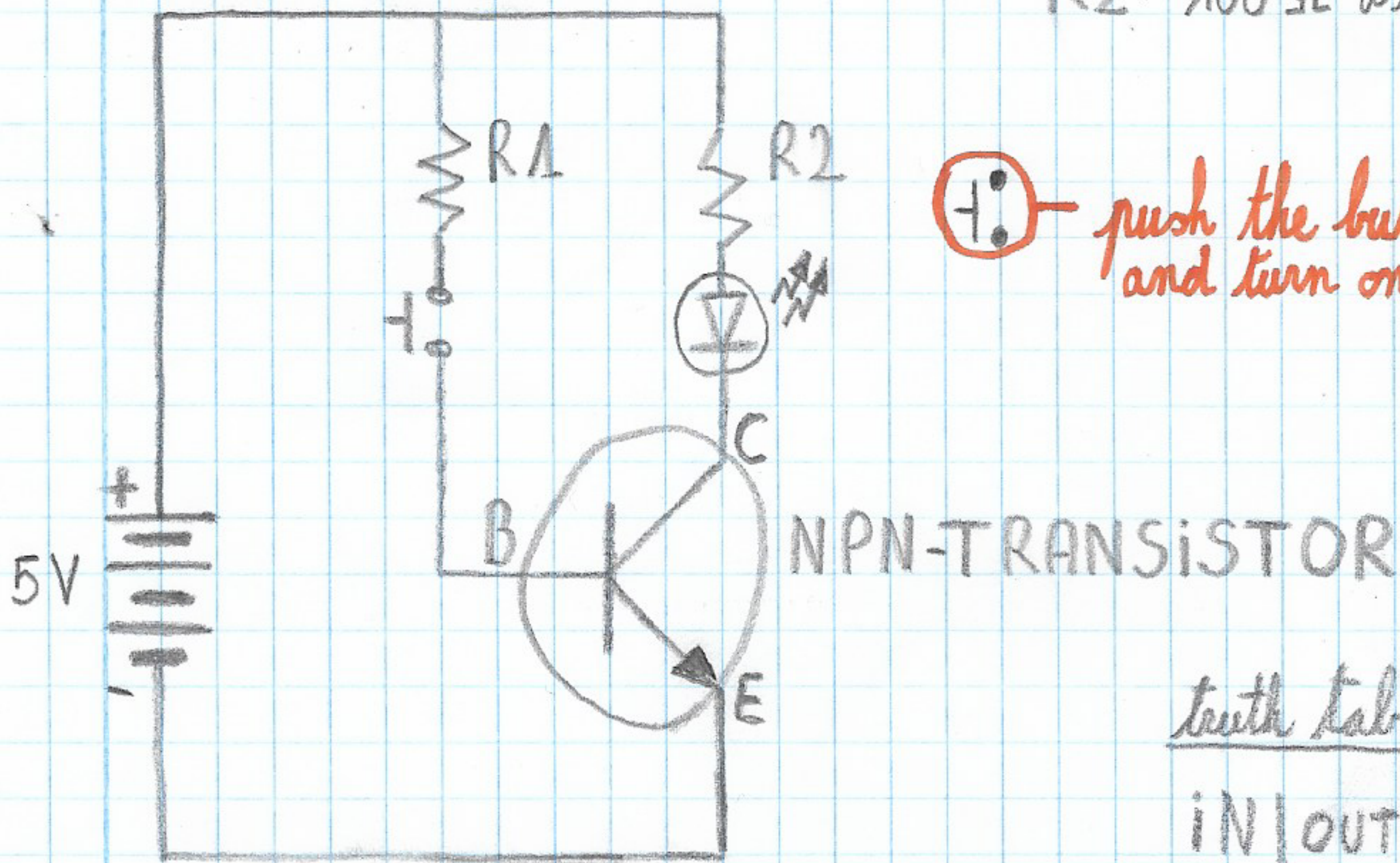


Logic gates:

BUFFER: $\text{IN} \rightarrow \text{OUT}$

$R1: 1K\Omega$ used.

$R2: 100\Omega$ used.



+ - push the button to create a closed circuit and turn on the light emitting diode.

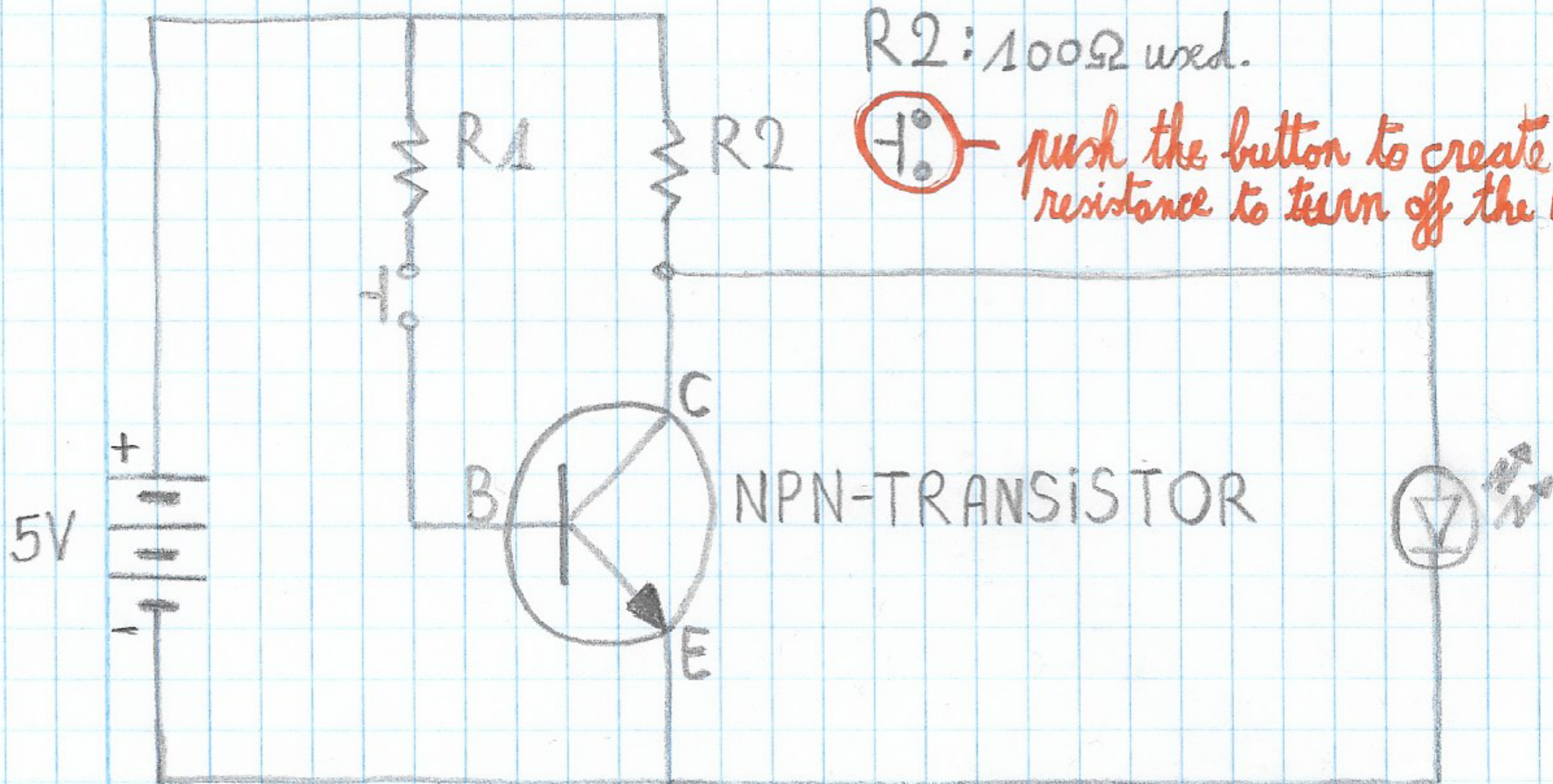
truth table:

IN	OUT
0	0
1	1

INVERTER: $\text{IN} \rightarrow \text{OUT}$

$R1: 1K\Omega$ used.

$R2: 100\Omega$ used.



+ - push the button to create a path of least resistance to turn off the LED.

truth table:

IN	OUT
0	1
1	0