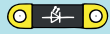
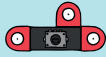


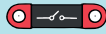
L290 NPN AMPLIFIER WITH LED



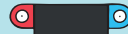
1x LED



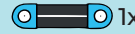
1x potentiometer



1x switch



1x battery



1x 2x



1x



3x



1x bulb



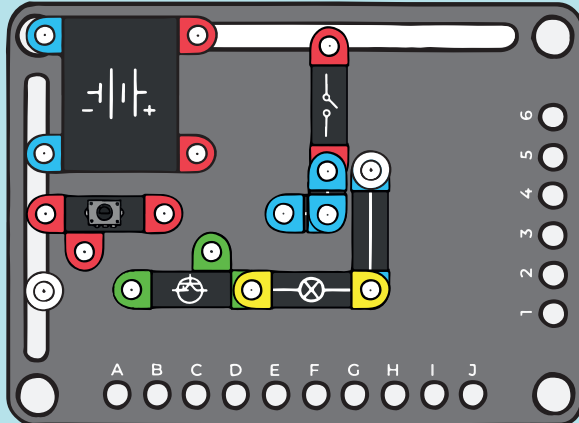
1x transistor NPN



1x resistor 1kΩ

The circuit demonstrates the ability of a transistor to amplify an electric current. Use a potentiometer to control the current flowing through a LED diode to the transistor base. A low current that is barely sufficient to turn on the LED will cause the transistor to open and cause a high current to flow through the bulb as the partial opening of the transistor will increase the voltage on the bulb. This build is called a common emitter circuit because the emitter of the transistor is connected to a common power supply.

1.



2.

