



BUILD A

Security Badge

WHAT YOU'LL LEARN

When the charges (+ and -) are different, they pull together. When they're the same (+ and +, - and -), they push away from each other. This is called magnetic force.

When the magnet is moved close to the magnetic switch, the magnet will pull on the switch with magnetic force.

How far away you can feel the magnetic force is called the magnetic field.



Magnetic, snap-together modules for learning basic circuitry

WHAT YOU'LL NEED



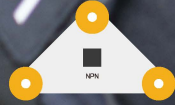
1-POINT WIRE (x4)



2-POINT WIRE (x2)



3-POINT WIRE (x1)



ELECTRIC SWITCH (x1)



BULB (x1)



MAGNETIC SWITCH (x1)



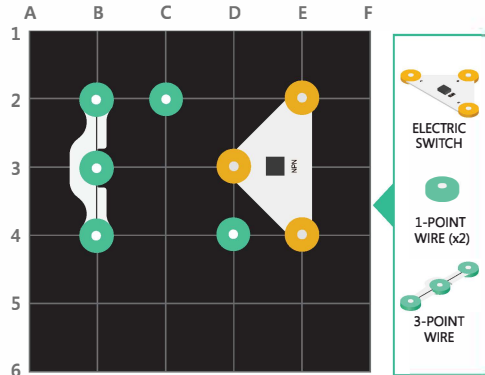
BATTERY (x1)

BUILD A

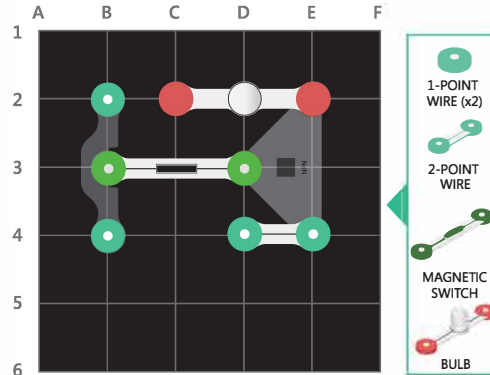
Security Badge



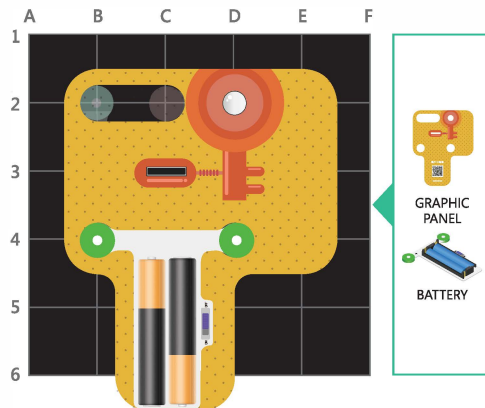
Magnetic, snap-together modules
for learning basic circuitry



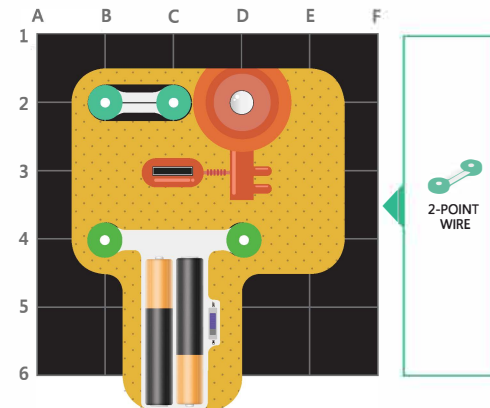
Step 1: Place the NPN, two 1-point wire components, and one 3-point wire component on the board as shown.



Step 2: Place two 1-point wire components one 2-point wire component and the magnetic switch on top of the pieces from step 1, as shown.



Step 3: Add graphic panel and battery. Flip switch on battery to "ON" position.



Step 4: Place one 2-point wire component on top of the pieces from step 3, as shown. Put a magnetic over the center opening to make the light go on!

