Simple Electronic Breadboard ASM-412 **Objective: Construct a low voltage circuit using a breadboard**

Primary Task

Additional step by step instructions for Circuit #2 and #3 are included on separate cards.

1

Snap Circuit Construction

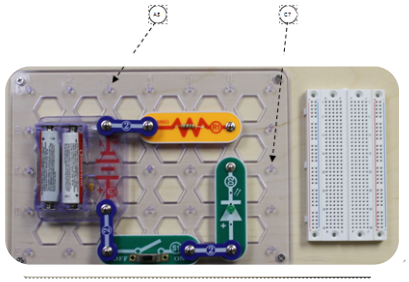
Rows are identified with letters.

Columns are identified with numbers.

Grid locations are identified by row letters and column numbers, for example A3 or C7.

The Snap Circuit is the same for each of the breadboard circuits.

1. Snap the battery holder, B1, onto B3 and D3 with the plus side down.
2. Snap the resistor, R1, onto B4 and B6.
3. Snap the switch, S1, onto E3 and E6.
4. Snap the LED lamp, D2, onto C6 and E6 with the plus side down.
5. Snap 2-way connectors across three locations, B3 to B4, D3 to E3, and E5 to E6.



Simple Electronic Breadboard
ASM-412

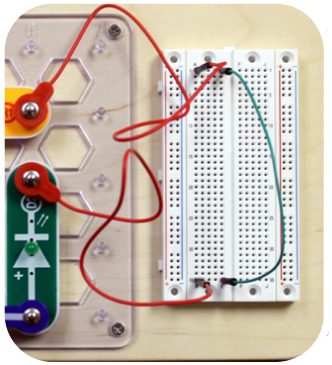
2

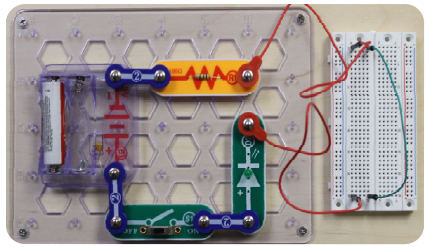
Breadboard Circuit #1

Connect pin-to-pin jumpers as follows:

1. E1 to E35
2. Connect the circuits together by using two of the snap-to-pin jumper wires, one from B6 on the Snap Circuit board to A1 on the breadboard and the other from C6 on the Snap Circuit board to A35 on the breadboard.
3. Insert the batteries and test your circuit by turning on the switch S1. The green LED should light up.

Simple Electronic Breadboard
ASM-412





Components and Operation

Completed Task

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Objective:

Secondary Task

No secondary task

Components

Operation

Completed Task