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**
   - Roads are identified with letters.
   - Columns are identified with numbers.
   - Grid positions are identified by row letters and column numbers, for example A2 or C1.
   - The Snap Circuit is the same for each of the breadboard circuits.
   - Snap the battery holder, S1, onto S3 and S9 with the pin side down.
   - Snap the resistor, R1, onto B4 and B8.
   - Snap the switch, S1, onto E4 and E6.
   - Snap the LED into S1, onto C4 and E4 with the pin side down.
   - Snap 2-way connectors across three locations, S3 to B4, D3 to E3, and E3 to E4.

2. **Breadboard Circuit #1**
   - Connect pin-to-pin jumper wires as follows:
     1. E1 to E10
     2. Connect the circuits together by using two of the Snap Circuit jumper wires: one from B6 on the Snap Circuit board to A4 on the breadboard, and the other from C8 on the Snap Circuit board to A3 on the breadboard.
     3. Insert the batteries and test your circuit by turning on the switch S1. The green LED should light up.

**Components and Operation**

**Completed Task**
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<th>Components</th>
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No secondary task