ELECTRO-SQUARES
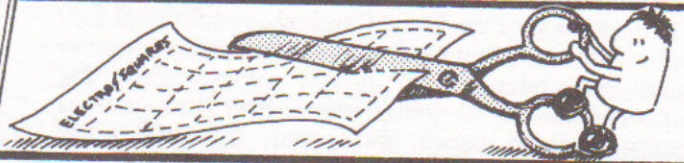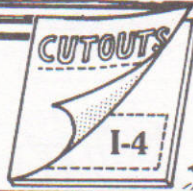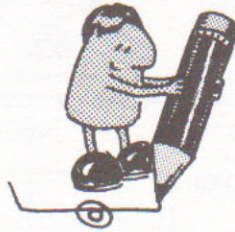
I Find the paper called
ELECTRO-SQUARES.
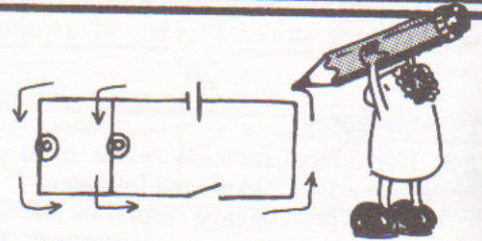Cut out each square along
the dashed lines.

CUTOUTS

I-4

2 For each letter below:

Map the circuit with your
ELECTRO-SQUARES.

Draw the circuit.

Show how electrons
flow through the circuit.

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a. 1 cell + 1 bulb + 1 switch:
☐ Map
☐ Draw
☐ Show flow

b. 3 cells in *series* with
1 bulb + 1 switch:
☐ Map
☐ Draw
☐ Show flow

c. 3 bulbs in *parallel*
with 1 cell + 1 switch:
☐ Map
☐ Draw
☐ Show flow

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d. 2 cells in *series*
+ 2 bulbs in *series*
+ 1 switch:
☐ Map
☐ Draw
☐ Show flow

e. 2 cells in *parallel*
+ 2 bulbs in *parallel*:
☐ Map
☐ Draw
☐ Show flow

f. 1 bulb + 1 switch } in *parallel* with
1 bulb + 1 switch } 2 cells in *series*:

☐ Map
☐ Draw
☐ Show flow

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g. 1 cell
1 bulb } in parallel:
1 switch
☐ Map
☐ Draw
☐ Show flow

h. 2 cells in *opposition*
1 cell + 1 bulb
1 switch + 1 bulb } in *parallel*:
1 switch + 1 bulb
☐ Map
☐ Draw
☐ Show flow

3 Paper clip your
ELECTRO-SQUARES
into one pile. You'll
need to use them
again.