CIRCUIT DIAGRAM WORKSHEET

PART 1 - Convert the following descriptions to schematic circuit diagrams. Remember to always use a ruler when drawing circuit diagrams.

1. Draw a circuit diagram containing a battery with 2 dry cells in series, one pathway with an open switch and a lamp. Show the direction of electron flow.
2. Draw a circuit diagram containing a battery with 2 dry cells in parallel, one pathway with a closed switch and a lamp. Show the direction of electron flow.
3. Draw a circuit diagram containing a battery with 3 cells in series, two pathways with a lamp on each path. Add a switch that would control the lamps on both paths. Show the direction of electron flow.
4. Draw a circuit diagram containing a battery with 4 cells in series, three pathways and a lamp on each path. Add switches to control each of the lamps and a fourth switch to control all of the lamps. Show the direction of electron flow.

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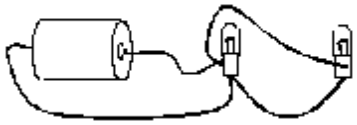
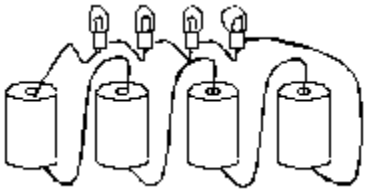
PART 2 - Convert the following pictorials to schematic circuit diagrams. Write descriptions for each pictorial.

1.

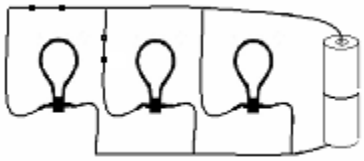
3.



2.



4.



BUILD AS MANY OF THESE CIRCUITS AS POSSIBLE WITH YOUR EQUIPMENT. WHEN NECESSARY, COMBINE YOUR EQUIPMENT WITH OTHER GROUPS TO BUILD THE MORE COMPLICATED CIRCUITS.

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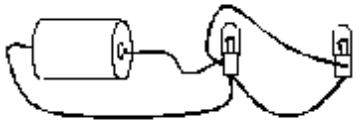
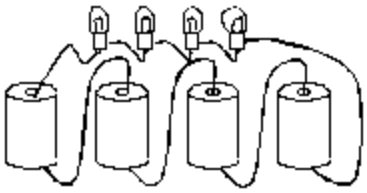
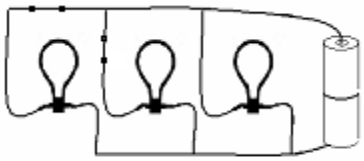


2.



4.



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