

PAPER CIRCUITS

You need:

PAPER



LED



3V COIN CELL BATTERIES



COPPER TAPE



You can replace the copper tape with the aluminium foil used for cooking

How to proceed:

1. Leave all the materials and the tools on a table so everyone will be able to reach them (*sharing* is one of the skills that can be learned with tinkering).
2. Divide students in groups (max. 4 people, so everyone can collaborate).
3. Don't explain too much to the students, they need to discover the activity themselves (*learning by doing*).

TIPS:

- With this activity you become a "mentor", a "coach", and you'll discover the activity side-by-side with your pupils. Your role is not teaching anymore, but you will need to accompany your students through the whole activity. Remember, LUMT (Less Us More Them)! You will ask questions rather than giving answers.
- Start with the "Simple circuit" and the "LED in parallel" templates... then feel free to use your creativity. You will be surprised from the amazing artworks that you will be able to create!

Examples:

- <https://www.exploratorium.edu/tinkering/projects/paper-circuits>
- <https://www.pinterest.it/KitHub/paper-circuits/>
- <https://www.pinterest.it/pin/490962796864131074/>
- <https://www.instructables.com/circuits/howto/paper+circuits/>
- https://www.youtube.com/results?search_query=paper+circuit
- <https://www.youtube.com/watch?v=BHjwUJnzFdo>

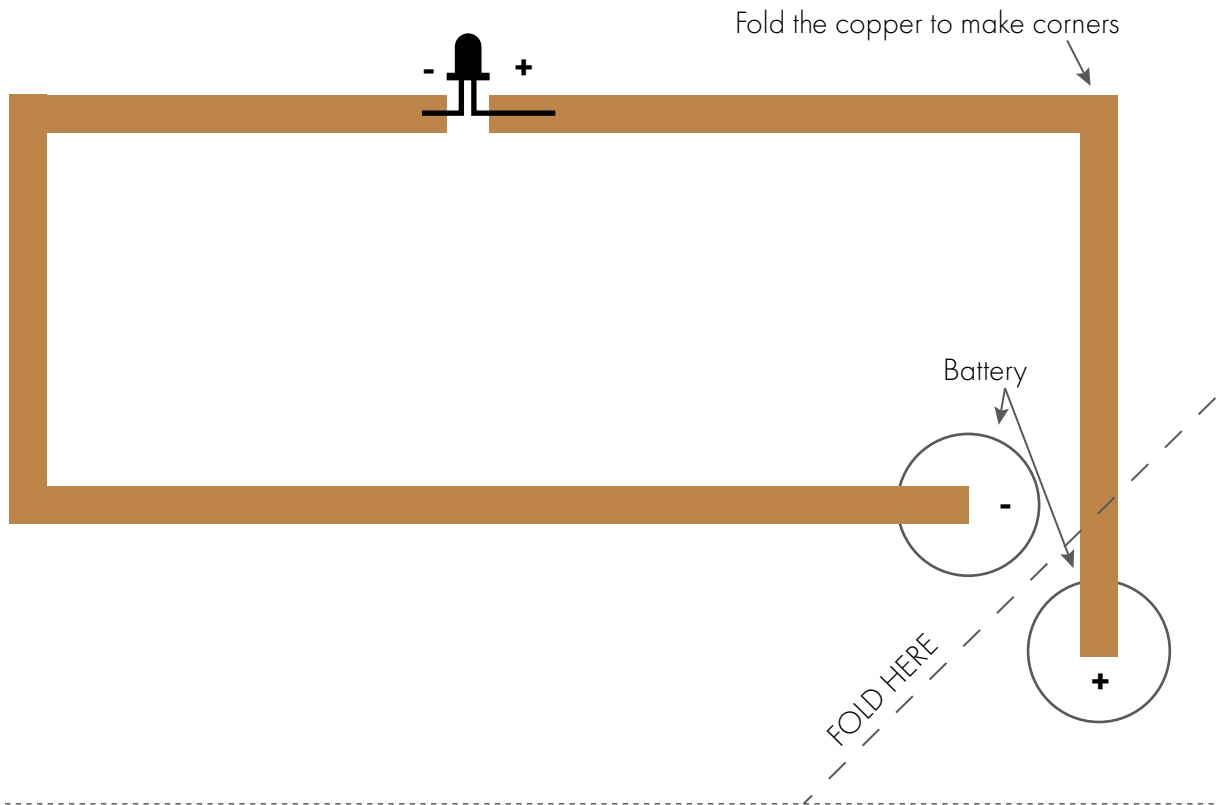
Push yourself forward:

- <https://www.youtube.com/watch?v=Al-6wMlaVTc>
- <https://www.youtube.com/watch?v=9gvuHsSyE4Q>
- <https://www.youtube.com/watch?v=CURDVOEx1Y0>

Other tinkering activity:

- <https://www.exploratorium.edu/tinkering/projects>

SIMPLE CIRCUIT



LED IN PARALLEL

