

## Make a battery

|                                 |   |                                     |                          |                          |                          |
|---------------------------------|---|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Name of the object and creator  | Make a battery by Logopsycom  |                                     |                          |                          |                          |
| Recommended ages                | 8-10 years  |                                     |                          |                          |                          |
| Thematic areas combined (STEAM) | Sciences  | Technology                          | Engineering              | Arts                     | Mathematics              |
|                                 | <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Materials needed                | <ul style="list-style-type: none"> <li>20 coins of 20 or 5 centimes</li> <li>20 cotton pads</li> <li>Lemon juice</li> <li>Small sheet of polystyrene</li> <li>Wooden stick</li> <li>Small electric wire and a diode or a voltage tester</li> </ul>                    |                                     |                          |                          |                          |
| Outline of the steps            | <ol style="list-style-type: none"> <li>1. Prepare the material</li> <li>2. Prepare the base</li> <li>3. Assemble the pieces and the cotton discs</li> <li>4. Test your battery !</li> </ol>   |                                     |                          |                          |                          |
| References                      | La Fondation La main à la pâte & Le Pommier. (s. d.).<br>L'Europe des découvertes scientifiques   . <a href="https://fondation-lamap.org/projet/l-europe-des-decouvertes-scientifiques">https://fondation-lamap.org/projet/l-europe-des-decouvertes-scientifiques</a> |                                     |                          |                          |                          |



### Step 1: Gather the material

Estimated time: 5 minutes

- Prepare all the material you will need.



### Step 2: Prepare the base

Estimated time: 5 minutes

- Place a coin on the polystyrene board and place 3 wooden stick skewers around it so that the coin doesn't move.



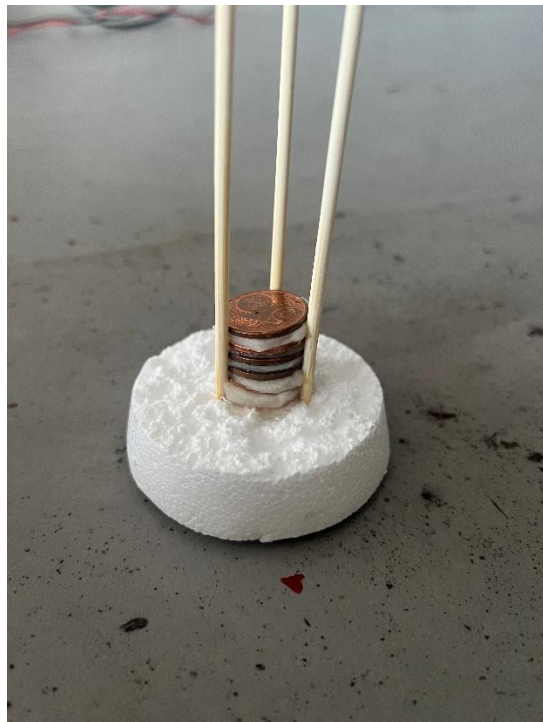
### Step 3: Assemble the pieces and the cotton discs.

Estimated time: 15 minutes

- Cut the cotton discs to the size of the pieces.



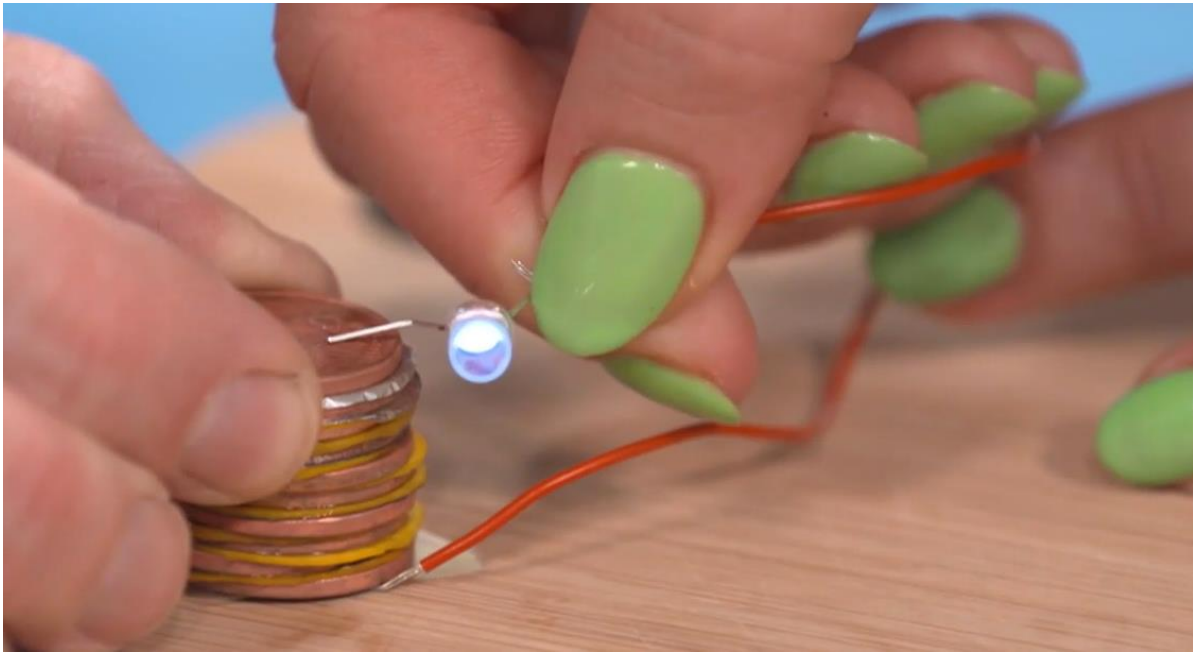
- Stack the pieces and the cotton discs soaked in lemon juice alternately.



#### Step 4: Test your battery

Estimated time: 5 minutes

- When construction is complete, place the stripped end of the wire under the coin stack. Thread the diode or place it against the other end of the bare wire and let it touch the coin above the stack. Observe whether the diode lights up.



## DiSClaimer

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