

# Light Up Cards!

Learn all about paper circuits by making a fun card to give to a friend or loved one! Templates are available or you can try to make your own circuit.

## You will need:

Conductive tape

Lights (we have white light stickers or LEDs in multiple colors to choose from)

Scissors

Paper

Battery



## What to do:

1. Gather your materials and find a workspace in the lab.
2. Draw your design on the paper first to see where you'd like to incorporate lights (try to do most of your decorating before adding the lights and circuitry as those can add lumps and creases to the paper making designing after the fact a bit more difficult).
3. Use conductive tape just like wiring (do NOT cross tape lines or your circuit will not work, always do ALL circuitry for each negative/positive circuit before starting the other side).
4. Add your lights, make sure you know which side is positive (longer foot on the LEDs, marked on the sticker lights) and which is negative on your light, all positive sides must be on the same unbroken circuit line and all negative sides must be on the other same, unbroken line. If your lights are not, the circuit will be broken and will not light up.
5. Add your battery and see your creation light up! If the lights do not turn on, try flipping the battery over or checking your lights to make sure they are turned the correct direction on the circuits, if there is only one light this should not be a problem.
6. Take a picture of your creation and share it with us on social media! @budalibrary

