



# INTERACTIVE PATTERNING

## You Will Need...

- Sheet of paper, folded in half
- Coloured markers
- Conductive tape
- 3-5 LED lights
- 3V coin cell battery
- Butterfly clip  
(or paper clip, to hold the battery in place)

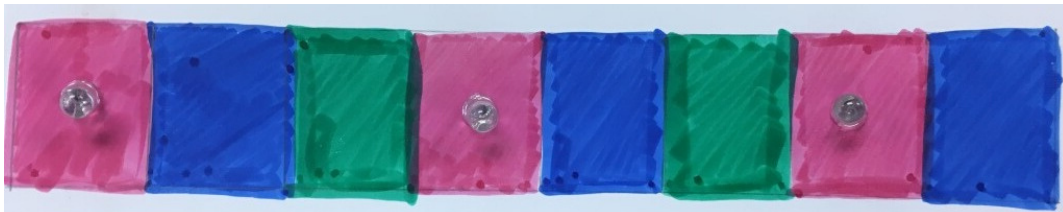
## Instructions:

Fold the sheet of paper in half width-wise. On the front, colour a short repeating pattern (like below):



On the inside of the card, build a parallel circuit to light up one part of the pattern. For the above pattern, the circuit might look like:

**Front:**  
Coloured pattern



**Inside:**  
LEDs poking through pattern



**Inside:**  
Parallel circuit made with copper tape

## Note:

Why not use a series circuit, which is easier to build? LEDs cause resistance. If you string them in a series, the resistance adds up to stop the current flowing to all of the LEDs.

For additional patterning activities with coding, visit: [Solve CODING PUZZLES with repeating patterns.](#)

