Pattern & Circuit Design

with





RAN ZHOU

- Architecture and Urban Planning
- Crafter
- Physical Computing
- Love Robot 🤐



BRANDI KINARD

- Mechanical Engineering
- Fine Artist
- Activist
- Love Sci-fi 🚀



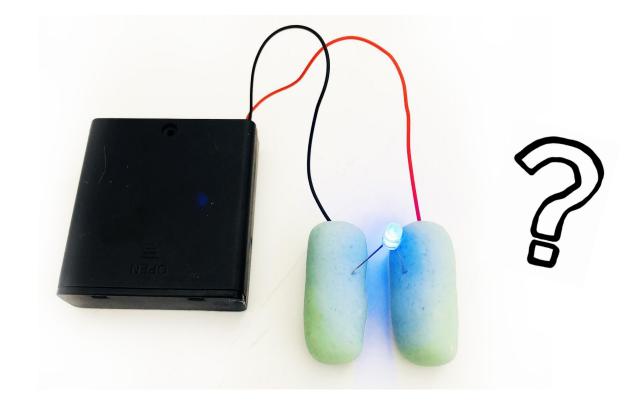
MATERIALS LED light Insulated dough Battery pack Conductive playdough





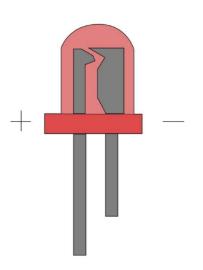








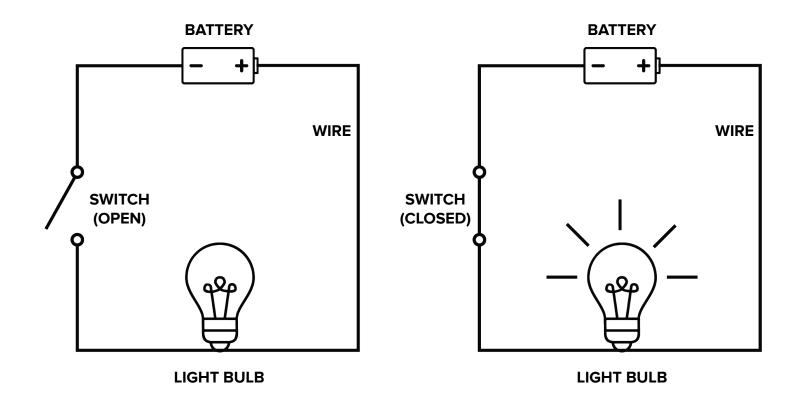
Light-emitting diode (LED)



a semiconductor light source that emits light when current flows through it.

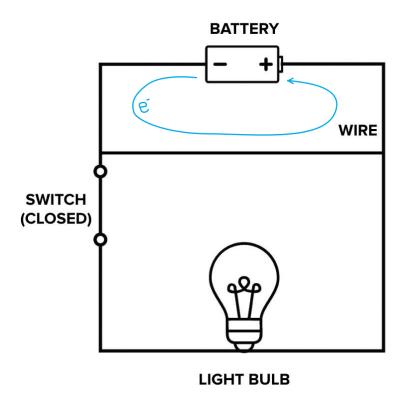
The long leg - connect to the positive side(+) - Red Wire

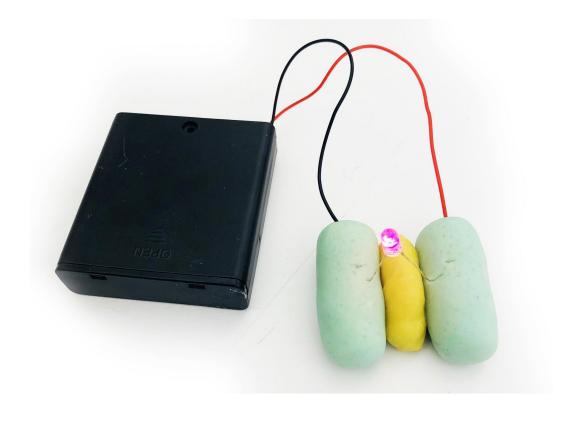
The short leg - connect to the negative side(-) - Black Wire





SHORT CIRCUIT





PLAY DOUGH

MAKE A CIRCUIT



Conductive Playdough

Salt



Insulated Playdough

Sugar



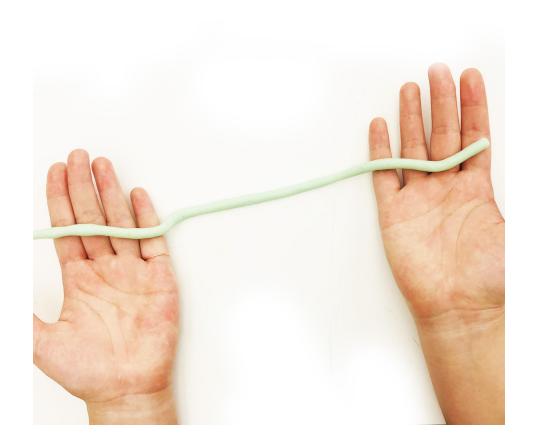
STEP ONE





STEP TWO

STEP THREE



PATTERN DESIGN WITH COILS







FANTASY ANIMAL

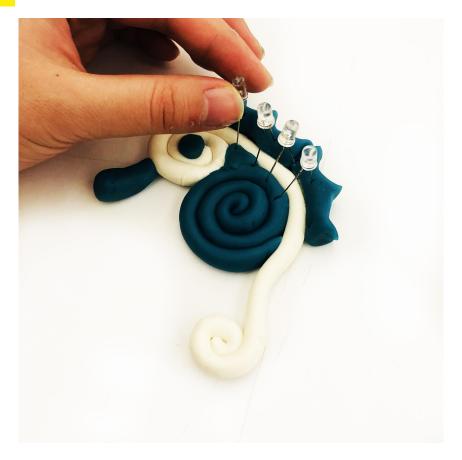
STEP THREE



STEP FOUR

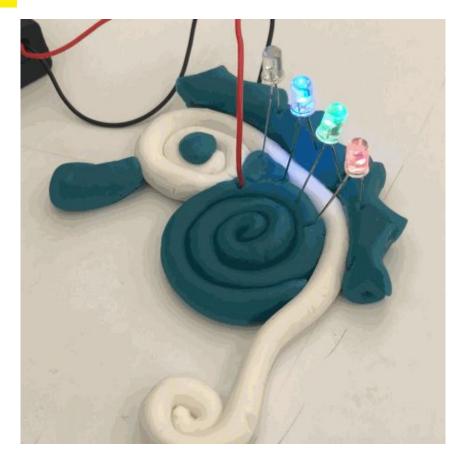






FANTASY ANIMAL

STEP SEVEN



CREATIVE TIME!!

DESIGN YOUR OWN FANTASY ANIMAL

WITH THE **COIL ELEMENT**

AND LEDS

THANKS