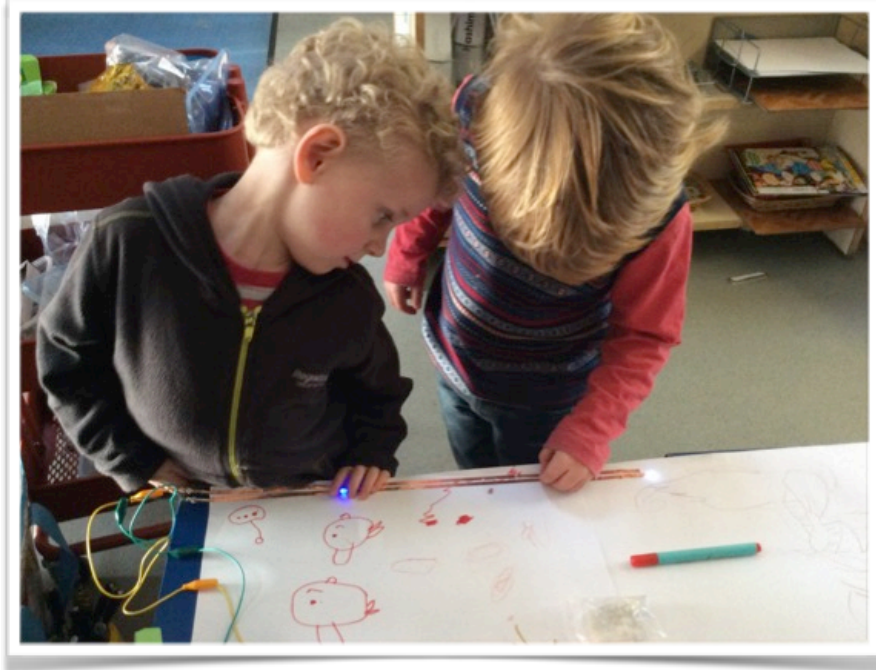




MakEY



Drawing with Circuits

Aims

The aim of the activity is for children to learn about simple circuits and to create drawings with areas that light up. This activity is suitable for children aged from 3.

Intended Learning Objectives

All children will be able to:

- create a basic circuit with a LED, copper tape/ silver foil and battery pack.
- create a drawing with a section that lights up.

Some children will be able to:

- describe how a basic circuit works;
- create a drawing with a series of lights.

Materials

- Battery holder for 2 x AA batteries.
- AA batteries.
- Crocodile clips.
- LEDs of different colours.
- Copper tape and/ or silver foil.
- Paper.
- Felt pens.

If you have the resources available, Chibitronics LED circuit stickers are excellent and can be used instead of/ as well as LEDs: <https://chibitronics.com>

Conductive paint is available to use for an activity such as this, but it takes a while to dry and young children may lose interest in the activity:

<https://www.bareconductive.com/make/what-is-electric-paint/>

Activity

1. Enable children to create drawings using pen and paper.
2. Demonstrate how to create a circuit on paper using copper tape and/ or silver foil, LEDs, batteries, battery holder and crocodile clips.
3. Let their imaginations run wild!
4. Place numerous sheets on large tables and enable children to create a collaborative light-up picture.



Notes created by Broomhall Nursery School, Sheffield.