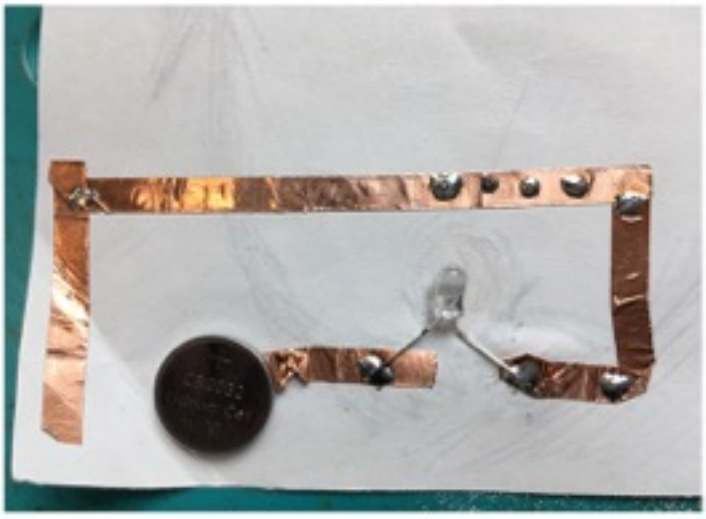
Froebel's Gifts for the 21st Century



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What does this Teach?

Froebel's Gifts provide students and teachers a variety of simple methods of entering the larger world of maker education, simple circuits, and kinetic sculpture.

*Students engage in collaborative exploration of new materials, that present new challenges to solve.

*Students engage with new levels of interactivity as their work can be percieved in different states of being.

*Froebel's Gifts lead to lessons that allow students to question narratives, parellels of on and off, and understand the dynamic relationship between an artwork and viewer.

*The integration of circuitry allows students to question and explore the lengths of traditional media and means of expression.

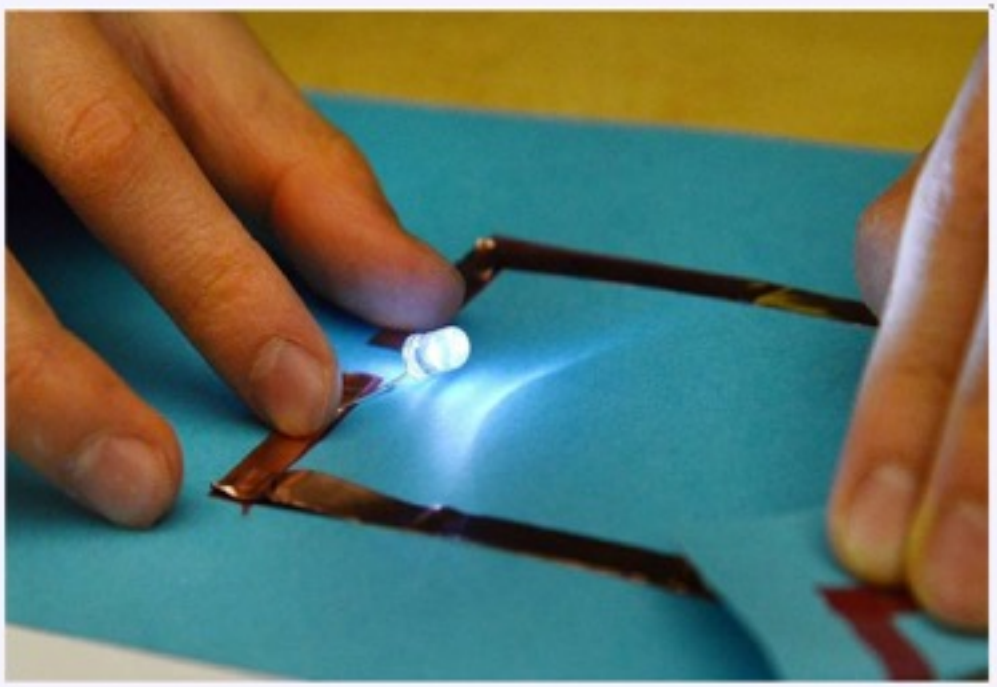
*Students explore the parallels between two-dimensional images and film on a small scale.

*Kinetics and moving parts are seen as means of expression in the same manner as color, form, texture, etc...

*Students infer conenctions between both media (electronics and found material) and dimensions (2D, 3D, 4D).

*Students are introduced to working iteratively in attempts to problem solve and explore new outcomes.

*Froebel's Gifts fosters the process of ideation, within the world design theory.



Helpful Resources

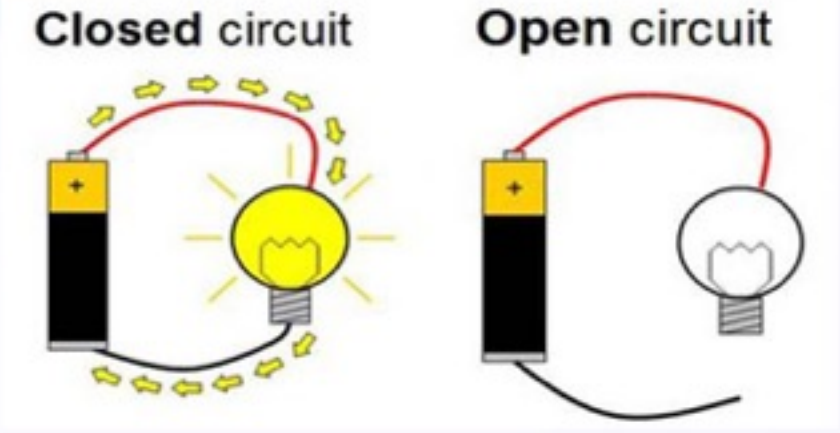
*amazon.com
*sparkfun.com
*adafruit.com
*servocity.com
*esssales.com
*grainger.com
*lowes.com
*fablearn.org
*makerspaceforeducation.com
*padlet.com
*gigaparts.com
*makerspaces.com
*makered.org
*edutopia.org

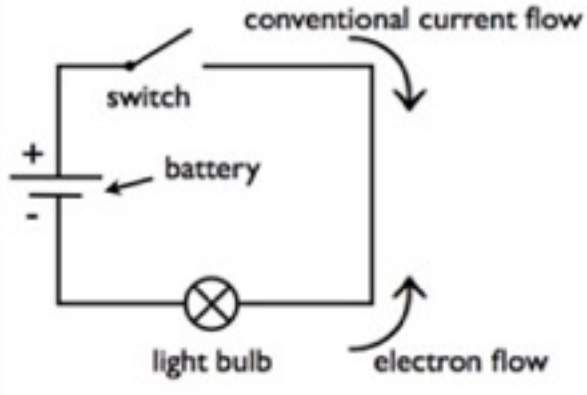
*Make sure to check your local recycling centers!

Materials

* DC Motors
* Copper Tape
* LED
* Copper Tape
*Batteres
*Markers
*Paint
*Magazines
*Popsicle Sticks
*Paper
*Duct Tape/Hot Glue
*Pencils
*Crayons
*Cardboard

Helpful Diagrams





Component	Circuit Diagram Symbol
Wire	
Resistor	
Light bulb	
Cell	
Battery	
Switch	