

DIY Infinity Mirrors

Shared by: Dina Gjertsen, [Parts and Crafts](#)

Specialized tools/technology used:	Experience level required:
Electronics tools (soldering iron, wire cutters/strippers) LEDs (premade strips or individual), battery packs one-way mirror film (automotive tinting, etc) small acrylic or glass mirrors craft materials	beginner

Grade Level (of this example): 4-12

Topic/Content Standards (for this example): electronics (parallel circuits, components)

Summary of Project:

What is an infinity mirror? An infinity mirror is a pair of parallel mirrors which create a series of smaller and smaller reflections that appear to recede into an infinite distance. We can make one using a strand of LEDs, a battery pack, a cardboard tube and two small round mirrors - one regular mirror, and one made out of "one way mirror" film used on car windows. This is a very simple infinity mirror, designed to be built by kids or grownups that are new to electronics.

Images of finished student work





Possible Extensions/Content Exploration:

After creating a basic infinity mirror, add miniature decorations and embellishments inside of the project to create a repeating illuminated scene. Try using UV LEDs and neon artifacts to create an eerie, glowing tableau.

Embed the infinity mirrors into a larger project or projects.

Power and control the LEDs with an arduino or other microcontroller. Swap the basic LEDs for RGB-addressable LED strips (neopixels).

Scale it up - create a larger infinity mirror from found or purpose-built materials.

Suggested Resources

Check out the [DIY Parts and Crafts Infinity Mirror Instructable](#) for detailed build instructions.