



GRAPHITE CIRCUIT



MATERIALS

- Lyra Graphite Crayon
- Canson XL Mix Media Paper
- 9V battery
- Mini LED lights
- Tape

TEACHER PREPARATION

- Graphite is an electrical conductor, perfect for learning circuits and electricity.
- Graphite is low in conductivity.
- Success depends on the length, thickness, and amount of graphite on the paper.
- The longer the graphite path - the dimmer the light.

DIRECTIONS

1. Draw an image where all the lines are connected, except for the ends of the drawing. Make sure to create thick, bold lines with a Lyra® Graphite Crayon. Leave at least a $\frac{1}{8}$ " opening on opposite ends of the drawing.
3. Mark positive (+) one opening and negative (-) lines at the opposite opening.
4. Place the 9V battery on one of the openings. Align the positive and negative ends with the graphite lines.
5. Bend the bottom ends of the wires on an LED. (The longer wire of the LED is the positive.)
6. Tape the wire ends of the LED across the other gap aligning positive and negative.
7. Make sure the wire ends are in contact with graphite lines and LED is standing upright. Press the battery down on the lines and watch the LED light up.