**Illuminating Food Webs: A Maker Jigsaw**

**Materials List**

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| Item | Description | Link |
| Circuit Template | Template to create the paper circuit. | See additional lesson resources. |
| Copper tape with conductive adhesive. | Copper tape to be used for paper circuit. It is recommended that you choose a brand with a conductive adhesive. | <https://www.amazon.com/inch-yds-Copper-Foil-Tape/dp/B00EY44I42/> |
| 5mm LEDs | 5mm LEDs for the circuit. NOTE: White, Blue and Green are rated for apx. 3.0V. Yellow and Red are rated for 2.0V, as such adding a resistor to the circuit is recommended to prevent burnout of the LEDs. | <https://www.amazon.com/Colors-Assorted-Emitting-Diodes-Resistors/dp/B01FDOBRU4/> |
| Battery Holder with leads and on/off switch | Batter holder for two AA batteries. Recommended that you choose one with wire leads and an on/off switch. | <https://www.amazon.com/TrendBox-Battery-Switch-Plastic-Storage/dp/B071RVP5D8/> |
| 2 x AA batteries | Two AA batteries for the battery holder. | n/a |
| Scissors | For cutting copper tape. | n/a |
| Multimeter (optional) | Tool for testing circuits and measuring voltage/current. We recommend a digital multimeter with a backlight for the LCD and a continuity buzzer. | <https://www.amazon.com/AstroAI-Digital-Multimeter-Voltage-Tester/dp/B01ISAMUA6/> |
| Solar Panel (optional) | 3V solar panel with at least 20ma of current for each LED in circuit. | <https://www.solarmade.com/store/product/jss-p> |