Start Making!
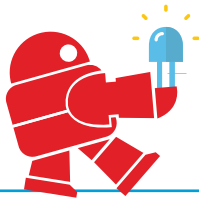
Materials List
Light it Up

- ☐ LED lights (one or more colors)
- ☐ 3V coin cell batteries (i.e. CR2032)
- ☐ Copper tape (conductive foil)
- ☐ Paper (note cards, card-stock, construction paper, paper cups, or other paper)
- ☐ Scissors
- ☐ Clear tape
- ☐ Binder clips (small, about 3/4 inches wide)
- ☐ Colored pens, pencils, or markers

Materials List
Make It Sing

- ☐ MaKey MaKey kits
- ☐ Computers with Scratch.
  See: scratch.mit.edu
- ☐ Scratch piano project.
  See: scratch.mit.edu/makeypiano
- ☐ Clipboards with metal clips
- ☐ Graphite Pencils, #2 or softer
- ☐ Blank paper
- ☐ Conductive materials: bananas, apple slices, gum drops, or other moist foods; Play-Doh or other waterbed clays; aluminum foil, spoons, copper tape, or other metal objects
- ☐ Non-conductive materials: plastic, electrical tape, and cardboard
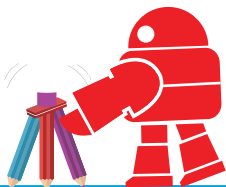
Materials List
Paint with Light

- ☐ Digital cameras with long-exposure settings, or smart phones with an app (such as Slow Shutter Cam or LongExpo)
- ☐ Tripod (if available)
- ☐ Single-color LED lights
- ☐ Blinking RGB (tricolor) LED lights
- ☐ CR2032 (coin) batteries
- ☐ Pipe cleaners
- ☐ Clear tape
- ☐ Straws or craft sticks
- ☐ Translucent materials: wax paper, glass jars, pingpong balls, drinking cups, and glue sticks
- ☐ Copper tape or wire
- ☐ Light sources: flashlights, toys with moving lights, cell phone screens, or electroluminescent (EL) wire (optional)

Materials List
3D Forms

- ☐ Printouts of Cube Template:
  bit.ly/start-making-cube
- ☐ Printouts of Pyramid Template:
  bit.ly/start-making-pyramid
- ☐ Printouts of Cylinder Template:
  bit.ly/start-making-cylinder
- ☐ Paper
- ☐ Modeling clay
- ☐ Glue, clear tape or double-sided tape
- ☐ Rulers
- ☐ Crayons, pencils, and markers
- ☐ Sculptris 3D modeling software; download from pixologic.com/sculptris/

Materials List
Change the Move

- ☐ A small toy or household device with a circuit and motor, battery power, and a switch (i.e. a disposable electric toothbrush, a mini-handheld electric fan, or a toy car)
- ☐ A plastic cup or bowl
- ☐ Drawing tools
- ☐ Fasteners (tape, double-sided foam tape, pipe cleaners, or rubber bands)
- ☐ Cork or old eraser
- ☐ Art supplies (googly eyes or pipe cleaners)
- ☐ Wires or copper tape
- ☐ Wire cutter/stripper
- ☐ Butcher paper or large sheets of art paper
- ☐ Tools: pliers, screwdrivers, scissors, and safety goggles

Materials List
Sew the Circuits

- ☐ Felt
- ☐ Needles
- ☐ Conductive thread
- ☐ Regular thread
- ☐ LilyPad sewable LEDs
  See lilypadarduino.org
- ☐ LilyTiny
- ☐ LilyPad sewable battery holder
- ☐ Coin batteries, 3V (CR2032)
- ☐ Alligator clips (optional)