

Basic Electronics:

- Circuits with aluminum stripes, copper tape, metal clips and pins, washer, crocodile clips, cables, conductive ink/dough, conductive fabric/tread, and protoboard.
- LED lights, motors, bottoms/switches, resistors, potentiometer, batteries, battery cases and sensors.
- Soldering kit.

- Applications: building lamps, interactive e-paper, traffic lights, interactive panels, games, kinetic sculptures, interactive light sculptures, interactive maps, detector of conductive materials, simple robots, door bell, motor fan, projector, musical instruments, coding 0 and 1 with led-blinking device, Morse code system, alarm device, airplane, cars, etc.

Hardware:

- Driller.
- Hand tool kit.
- Hot glue gun.
- Art materials.
- Clipping materials.
- Crafts materials.

Safety Equipment:

- Gloves.
- Glasses.

3D printing:

- 3D-printed microscopes.
- 3D-printed connectors for sculpturing.
- 3D-printing pen/gun.

Laser cutting machine:

- Laser-cut microscopes.
- Puzzle.
- Christmas decoration.
- Key-chain.

Wearables:

- Gloves with LED lights, bottoms and light sensors.
- Clothes with LED lights, bottoms and light sensors.

Paper engineering:

- Paper lamp.
- DNA Origami.
- Paper microscope.
- E-paper cards.

Arduino / Makey-Makey:

- Interactive art (in collaboration).

- Smart house with light sensor.
- Smart box with light sensor.
- Coding.

App-Inventor / Scratch:

- Interactive art (in collaboration).
- App for Android (in collaboration).

Magnets:

- Games.
- Fridge magnets.

Reused electronic components:

- Convergent lenses for microscopes.
- Motor, led lights and cables for electronic devices.
- Plastic components and electronic boards for electronic devices.

Reused plastic:

- Mosquito trap.
- Smartphone speakers.
- Games.
- Candle holder.
- Lamp.
- Coin locker.
- Microscope slides.
- Magnifying glasses.
- VR lenses.
- Air conditioner.
- Low-tech light bulb for ceiling.
- Plant holder.
- Plant pot.
- Watering device.
- Gardening shovel.
- Cup.
- Timer.

Reused cardboard paper:

- Paper microscope.
- VR headset.
- Games.
- Rube Goldberg machines.
- Automatons.
- Different kinds of hardware structures.
- Automated hands.
- Shelves.
- Plant Exsiccate.

Kitchen science:

- Slime.
- Conductive dough.
- Conductive ink.
- Organic ink.
- Soil paint.
- Lava lamp.
- Color-gradient sculpture with different concentration of dissolved sugar and food coloring.
- Staining-flower device using food coloring and capillarity.
- Gardening devices and practices.

Biotechnology:

- DNA extraction kit.
- Baking bread.
- Making Kombucha tea.
- Fermentation device with commercial yeast to blow balloons.
- Bacterial growth in Petri dishes with agar medium.
- Painting with bacteria in Petri dishes with agar medium.
- Bioplastic.

Lab equipment:

- DVD-player microscope.
- Webcam microscope.
- Glass-beads microscope.
- Laser microscope.
- Origami microscope.
- Low-cost paper incubator.

Others:

- Optic-illusion devices.
- Data science and internet art/installations for kids.