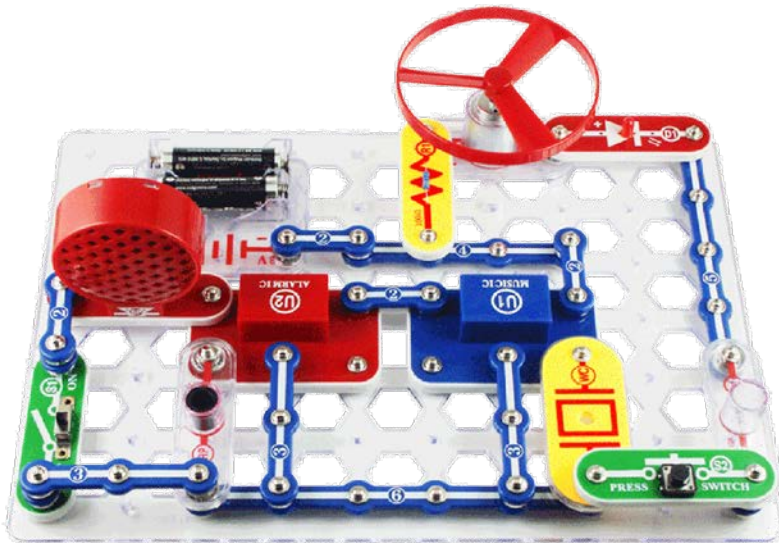


# Fun Electronic Circuits



It's fun!

## Let's learn about electronic circuits!

Let's develop many fun electronic circuits and learn the fundamentals of electronic circuits and the components. Turn on a motor, sound the alarm, and flash the LED!

### ✓ Learn while doing

Give your child an exciting, hands-on introduction to electronics with real circuit components that snap together to create working electronic circuits and devices.

Your child learns the fundamentals of electronics and related safety—no soldering required.

### ✓ Create working electronic circuits

With more than 30 electronic parts, which include an LED, a motor, a light sensor, switches, a resistor, an alarm circuit, a music-integrated circuit, and a speaker, your child develops a variety of working electronic circuits.

## After this program

Your child will be able to handle batteries properly and design and implement simple electronic circuits with batteries, switches, a motor, and an LED light.

## Syllabus

- 1) Week 1
  - Fundamentals of batteries and the safety
  - Electric light & switch, DC Motor & Switch
- 2) Week 2
  - Electricity, voltage
  - Lamp & fan in series and parallel, Light-emitting diode
- 3) Week 3
  - Signs of electric parts
  - Sound-activated switch, adjusting sound level with a resistor
- 4) Week 4
  - Conduction detector
  - Flying saucer, Slow-speed fan, Two-speed fan
- 5) Week 5
  - Musical doorbell, Momentary alarm
  - Alarm circuit, Laser gun sound
- 6) Week 6
  - Voice control LED, Motor control LED
  - Light control flicker, More sound effects
- 7) Week 7
  - AND gate, OR gate
  - NOR gate, NAND gate
- 8) Week 8
  - Reflection detector
  - Water detector
- 9) Week 9
  - Light-controlled Lamp
  - Voice-controlled Lamp
- 10) Week 10
  - Fun with the alarm IC
  - Motor sounds combo