

SNAP CIRCUIT

24 Class

Students will be able to re-create circuits of various functionalities such as shining a light bulb, spinning a motor, or both. They will be able to manipulate these circuits and create their own circuits using the components provided in the snap circuit kit.



One-to-one
Concept Classes

WHAT YOU'LL LEARN

Give a child an exciting, hands-on introduction to electronics with Snap Circuits. This innovative kit contains over many color-coded, real circuit components that snap together to create working electronic circuits and devices. Recommended for children 8 and older, this set offers do-it-yourself projects that will give your child an entertaining, concrete education on how electronics work.



Snap Circuit Course Curriculum

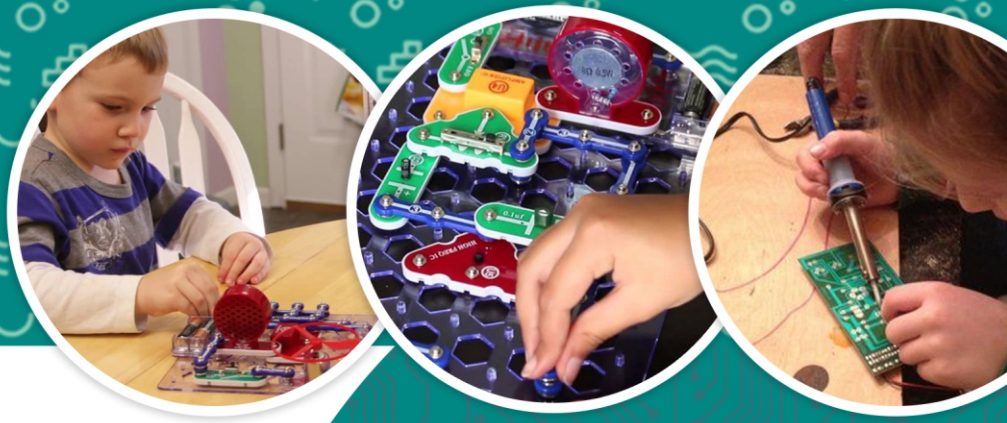
Basic Electrical Circuit



- Lamp
- Magnet-Controlled Glow Fan
- Glow Flying Saucer
- Color Fan
- LED
- One Direction for LED
- Red & Green LED in Parallel
- Red & Green LED in Series
- Lamp & LED in Series
- Lamp & LED in Parallel
- Lamp & Motor in Series
- Loads Controlled Separately
- Magnet-Controlled Alternating Light
- Magnet-Controlled Variable Speed Fan
- "AND" Gate
- "OR" Gate
- NOT Gate
- Color Light
- Blinking LED
- Voice of the Motor
- Both Directions Rotary of The Motor
- Vibration Switch
- Light-Controlled LED
- Water-Controlled LED
- Infrared Detector of LED
- Infrared Detector of Speaker
- Tilt Sensor
- Tilt Sensor 2

The music Doorbell circuits

- Musical Doorbell
- Vibration Musical Doorbell
- Magnet-Controlled Musical Doorbell
- Voice-Controlled Musical Doorbell
- Light-Controlled Musical Doorbell
- Motor-Controlled Musical Doorbell
- Water-Control Musical Doorbell
- Magnet-Control Musical Doorbell 2
- Voice-Controlled Motor Doorbell
- Flashing Lamp
- Flashing LED
- Light & Sounds Music Doorbell
- Red Light Music Doorbell
- Light Controlled Sounds
- Hand-Controlled Intermittent Music Doorbell
- Magnet-Controlled Intermittent Music Doorbell
- Infrared-Controlled LED
- Tilt Music



Alarm Circuit

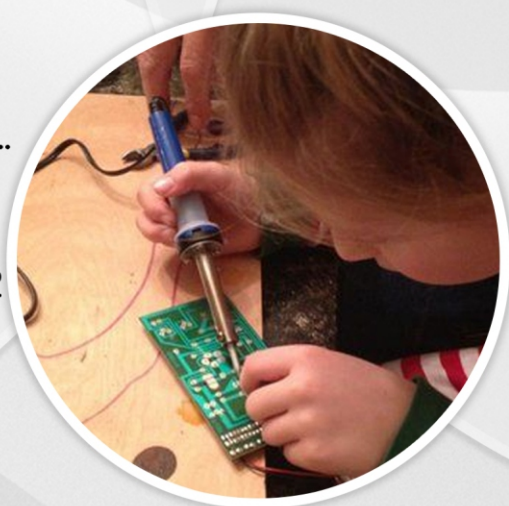
- Sound of Police Siren
- Magnet-Controlled The Sound of Machine Gun
- Hand-Controlled The Sound of A Fire Engine
- Sound of An Ambulance
- Alarm Lights & Sounds
- Light-Controlled Sounds of The Fire engine
- Magnet-Controlled Sounds of The Police Siren

- Tilt Alarm 1
- Tilt Alarm 2



Game of Maze Challenge

- Maze Challenge.
- Maze Challenge of Color LED.
- Maze Challenge of Light Motor..
- Maze Challenge of The Music.
- Maze Challenge of The Music 2
- Maze of Police Siren..
- Maze of Space War



Requirement:

1. Snap Circuit Kit (No.500)
2. Requires four AA batteries which are not included.
3. No Need of any software
4. No prior knowledge in programming or electronics

Space War Circuit

- Space War
- Vibration Space War
- Magnet-Controlled Space War
- Light-Controlled Sounds & Lights Space War
- Touch-Control Sounds & Lights Space War
- Tilt Sensor
- Infrared-Controlled Space War

FM Radio

- FM Radio
- Light and Sound FM Radio.

Course Outcome :

Using the Snap Circuits Junior kits, students will be introduced to the basic properties of electricity and electronics. They will learn the fundamentals behind circuitry and how circuits are used in all of the technological devices we use today. An overview of a simple circuit, followed by paired students' testing of the kits provides insight into the types of circuits and compares the differing properties of series circuits and parallel circuits.

Students will be able to re-create circuits of various functionalities such as shining a light bulb, spinning a motor, or both. They will be able to manipulate these circuits and create their own circuits using the components provided in the snap circuit kit.



Learning outcome

Students will be able to re-create circuits of various functionalities such as shining a light bulb, spinning a motor, or both. They will be able to manipulate these circuits and create their own circuits using the components provided in the snap circuit kit.