

## Introduction to Makey-Makey Suitable for: G4 - G7

Prerequisite: Basics Of Scratch

**Duration: 24 Weeks** 

Classes per Week: 1 class (45 minutes each)

#### **Course Overview:**

This course introduces students to the concept of circuits and interactive technology through the Makey-Makey kit. Students will explore basic electronics by creating circuits to interact with computer-based projects, enhancing their creativity, problemsolving skills, and understanding of how everyday objects can be transformed into interactive devices.

### **Covered Topics**

## **Unit 1: Introduction to Circuits and Makey-Makey**

- What is an electric circuit?
- Introduction to Makey-Makey and its components
- Setting up the Makey-Makey kit with a computer



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### **Unit 2: Hands-On Activities with Makey-Makey**

- Creating a circuit to control a simple traffic simulation
- Using Makey-Makey to control magical effects on screen
- o Building an interactive game controller for a ball game

### **Unit 3: Music and Art with Makey-Makey**

- Playing simple tunes by connecting Makey-Makey to conductive materials
- Creating a virtual guitar by completing circuits
- Using Makey-Makey to create a color selection tool
- Simulating a DJ experience with Makey-Makey buttons

## **Unit 4: Games and Final Projects**

- Designing a controller for a maze game
- o Interactive project to simulate launching a rocket
- Experimenting with different objects to make sounds



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#### **Materials Needed:**

- Makey-Makey kit
- Conductive materials (aluminum foil, playdough, fruits, etc.)
- Computer or Tablet
- Internet connection
- Chrome Browser

#### **Assessment**

At the end of each unit, learners will be assessed on their understanding of circuits and how well they can apply the Makey-Makey to create interactive projects. The assessments focus on creativity, circuit accuracy, and effective project design.

#### Certification

A certificate of completion will be awarded to students who successfully complete the course, recognizing their foundational skills in electronics and interactive project creation with Makey-Makey.