

TI STEM and Coding Resources: Getting Started and Beyond TI-84 Plus CE TI-Basic using TI-Innovator Hub, TI-Rover and more

See [link](#)

Getting Started with TI-84 Plus CE TI-Basic

- Overview of TI-84 Plus CE (video from Digital Mood Ring project) [link](#)
- Write your first TI-Basic program with TI-Innovator Hub (video from Digital Mood Ring project) [link](#)
- 10 Minutes of Code for TI-Basic [link](#)
 - Unit 1: Program Basics and Displaying on Screen
- **Meet the Rover** [link](#)
- **Meet the TI-Innovator Hub** [link](#)
- 10 Minutes of Code for Python with TI-Innovator Hub and Rover [link](#)
 - Unit 1: Getting Started with the TI-Innovator Hub
 - Unit 4: Make Rover Move!
- Introduction to SmartView CE software for demonstration (video) [link](#)

TI-Rover Projects and Activities

- **Meet the Rover** [link](#)
- **Rover, Watch Out for Rover** [link](#)
- **On-Ramp to Robotics: Unit 1 Motion Mars Challenge** [link](#)
- **On-Ramp to Robotics: Unit 2 Sensing Mars Mineral Challenge** [link](#)
- **Math in Motion Lessons** [link](#)
 - Move the Cone
 - Navigate “Math-hattan” Challenge
 - Drive the Line Challenge
 - Driving Inequalities Challenge
- 10 Minutes of Code for Python with TI-Innovator Hub and Rover [link](#)
 - Unit 4: Make Rover Move!
 - Unit 5: Rover’s Sensors
 - Unit 6: Coordinates with Rover
- **STEM Event TI-Innovator Hub and Rover activities** [link](#)

Note: See the project pages to download teacher background PDF’s, student handouts, Teacher files with example programs and student files with scaffolding of the project.

Connectivity to handhelds

Transfer files to and from the calculator. Screen Snapshots. Update Handheld OS.

- **TI Connect CE Software for Mac and Windows** [link](#)
- **TI Connect CE App for Chromebooks** [link](#)

TI-Innovator Hub Projects and Activities

Smart System Projects

- **Digital Mood Ring** [link](#)
 - includes step-by-step videos [link](#)
 - download teacher document [link](#)
 - download teacher project background document [link](#)
 - download student handout [link](#)
 - download zip file with example programs [link](#)
- **Four-Chambered Heart** [link](#)
 - Download Heart Build Sheet PDF [link](#)
 - Quick demonstration video [link](#)
- **Smart Irrigation Project** [link](#)
 - Demonstration Video by TI STEM Team [link](#)
 - Blog Post from US Teacher [link](#)
 - Video from High School in Portugal [link](#)
- **Pet Car Alarm Project** [link](#)
 - Demonstration video by TI STEM Team [link](#)
- **Some Like it Tepid** [link](#)
- **Making Music with Code** [link](#)
 - download teacher document [link](#)
 - download student handout [link](#)
 - download piano keyboard reference guide [link](#)
- **STEM Event TI-Innovator Hub and Rover activities** [link](#)

Other Resource

- **TI Codes Lessons and Resources** [link](#)
 - 10 Minutes of Code for TI-Basic [link](#)
 - 10 Minutes of Code for TI-Basic TI-Innovator and Rover [link](#)
 - Unit 7: The RGB Array
 - 10 Minutes of Code Beyond Basics [link](#)
 - 10 Minutes of Code Teacher's Lounge [link](#)
 - Download student handouts
 - See curriculum alignments
- **Path to STEM Projects** [link](#)
 - TI-Innovator Hub and breadboard engineering and coding activities that explore analog and digital inputs and outputs, calibration and a feedback and control system
- **Adventures in Coding and STEM in the Mathematics Classroom (On Demand Webinar)** [link](#)