Get started with STEM projects

Engage students in real-world activities using the **TI-Innovator™ Rover and a TI-Nspire™ CXII Python** graphing calculator

Step 1: Gather your equipment.

In addition to your TI-Nspire™ CX family graphing calculator, you'll also need a TI-Innovator™ Rover.

If you do not have one, you can borrow the equipment and supplies needed for the activities below. Go to www.TIstemProjects.com , click on the **Get Started Now** button, then fill out the form to begin a conversation with the TI STEM Team.

Note: If you are using your own equipment, make sure your Texas Instruments technology is up to date.

Step 2: Learn to program.

You'll need a background in creating, storing, editing and running Python programs on the TI-Nspire™ CXII graphing calculator.

First, watch this video overview of the TI-Nspire CXII handheld. Second, follow along with a video that guides you through writing your first Python program.

For more step-by-step practice, check out 10 Minutes of Code: Python. Complete Unit 1 Skill Builders 1 and 2. You are ready to move on to Step 3 below.

Step 3: Make Rover move!

With a foundation on using the TI-Nspire™ CXII graphing calculator, you can now get experience in writing programs for the Rover. Start with Unit 4 in 10 Minutes of Code: TI-Nspire™ CXII Python and TI-Innovator™ Technology for step-by-step skill builders to help you and your students.

Now that you're comfortable using the TI-Nspire™ CX family graphing calculator and Rover, you are ready for these lessons and activities (follow the links to each project):

Rover, Watch Out for Rover

On-Ramp to Robotics - Mars Rover Challenge