

Programming Basics



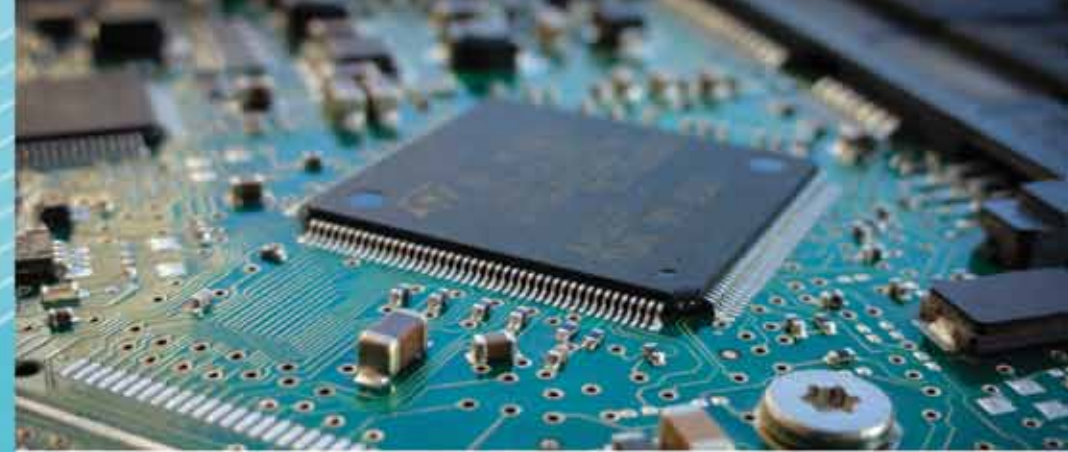
In this curriculum, students will be introduced to the Kano Computer Kit which features the Raspberry Pi 2, a lightweight, powerful brain. They will utilize a uniquely designed operating system, Kano OS, as well as the Linux command line to complete programming techniques in both visual and textual programming languages – Scratch and Python.

Programming Basics Includes: Student Workbook, Instructor's Manual, Installation CD, Kano Computer Kit, Headphones (2), Computer is required and sold separately.

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MP4702

Activity 1: Introduction

Activity 2: Python Basics

Activity 3: Functions

Activity 4: Decision Statements

Activity 5: Loops

Activity 6: Sequences

Activity 7: Object-Oriented Programming

Activity 8: GUI Programming

Activity 9: The Internet & the World Wide Web

Activity 10: Post-Test & Wrap-Up

Lesson 11: Bonus

Lesson 12: Challenge

Lesson 13: Open-Ended Challenge

Lesson 14: Careers

Lesson 15: Internet

Skills:

- Complete the five steps of the program development cycle.
- Create an original program using either a visual or a textual programming language.
- Correct errors using the Python language.
- Construct an original graphical user interface,
- Demonstrate the use of comparison and logical operators.

Knowledge:

- Discuss types of computer components.
- Explain the fetch-decode-execute cycle.
- Discuss top-down design.
- Explain the concept of modularization.
- Discuss the use of arguments and parameters.

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