

Explorer Coders Bootcamp

South Africa's Online Python & BBC micro:bit Robotics Classes for Kids 10–13

First Real Code, First Real Robot

Explorer Coders is where kids write their first real programs. They learn Python fundamentals, build their first website with HTML & CSS, and step into physical computing — controlling motors and sensors with the BBC micro:bit. By the end, they'll have a personal website and a working Python app to show off. Based in Johannesburg, we teach live online to families across South Africa — including Cape Town, Durban, Bloemfontein and the Eastern Cape.

Python

HTML & CSS

BBC micro:bit

Robotics

10–13

Age Range

1 hr

Per Lesson

10

Lessons / Term



Robotics Included

WHAT THEY'LL LEARN

Explorer Coders Bootcamp Curriculum

Python Fundamentals

Variables, functions, if/else and loops — real code, real logic, written line by line.

HTML & CSS

Build and style a personal website from scratch — structure, layout and design basics.

Robotics with BBC micro:bit

Control motors and sensors, and write code that reacts to the real world.

Robotics — Arduino

Expand beyond micro:bit into breadboard electronics and Arduino boards — light shows, arcade builds and simple security systems.

Data: Lists & Dictionaries

Store and retrieve collections of data, and build simple databases.

Control Flow

Deepen understanding of variables, functions, conditionals and loops through real projects.

Mini-Projects

Build a calculator, a quiz app and a weather app — practical projects that reinforce every concept.

Capstone Project

Bring four years of learning together into a personal website and a working Python app of your own design — the project every Explorer Coders Bootcamp graduate walks away with.

Prerequisites: No prior coding experience required — Jungle Coders graduates or complete beginners aged 10–13 both start here comfortably.

AT A GLANCE

Level Details & Pricing

Ages	10–13
Format	Live Online
Lesson Length	1 hour
Class Size	Max 8 learners
Outcome	Personal website + Python app

Pricing	
Ad-Hoc Lesson	R 300
School Term (10 lessons)	R 2,750
School Year (40 lessons)	R 9,900
Monthly Debit Order (40 lessons/yr)	R 1,000/mo

MODULE LIBRARY

Extra Projects to Choose From

Micro:bit Science & Electronics Projects

30 coding and electronics projects built around the BBC micro:bit — a direct match for the Robotics with BBC micro:bit curriculum line.

Python Fundamentals Playbook

A comprehensive, playful Python primer covering variables, loops and functions — the spine for the Python Fundamentals curriculum line.

Space Adventure Game Project

A single guided project — code a space-adventure game from scratch, working with loops, strings and lists along the way.

Build Your First Real Website

A comic-book-style guide to HTML and CSS fundamentals, building toward a real, live website — matches directly into the HTML & CSS curriculum line.

 **Explorer Coders Bootcamp Certificate**

Complete all 4 years (ages 10–13) — each covering a minimum of 40 hours from the core curriculum and Module Library — and finish with a capstone: a personal website and a working Python app of your own design. Graduates earn the Explorer Coders Bootcamp Certificate and move on to Pioneer Coders Bootcamp.

FAQS

Common Questions

Q Is Python too hard for a 10 to 13 year old?

No — Explorer Coders introduces Python gradually through real projects like a calculator, quiz app and weather app, building on the logic skills learners bring from Jungle Coders.

Q Do you run online coding classes outside Johannesburg?

Yes — all Explorer Coders classes are live online, so we teach students across South Africa, including Cape Town, Durban, Bloemfontein and the Eastern Cape.

Get in Touch

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Terms start Feb · Apr · Jun · Sep · Ad-Hoc lessons available year-round · Sibling & group rates on request