



CODING AT SUMMERHILL COLLEGE

Understanding computers and learning the basics of coding helps children to develop an appreciation of how things work. ... This is an important reason that coding should be taught in schools, so children learn these skills while they are young. The ability to solve problems is a trait that is useful in life in general.

WHAT IS CODING AND HOW IS IT USED

Computers are amazing, but they can't think for themselves (yet). Coding is a method of communicating with a computer. Coding is used for writing systematic lines of instructions that will perform certain actions. Coding uses computer programming languages to give computers and machines a set of instructions to perform tasks. Coding allows us to create things like computer software, websites, apps, and video games, operating system, etc.

WHAT IS CODING LANGUAGE?

There are many coding languages used in programming, however the 3 programming languages that Summerhill utilises are: JAVA, HTML and Python. These are often used together as each one has pros and cons. JAVA is used as the server-side language for most back-end development projects, including those involving big data and Android development. JAVA is also commonly used for desktop computing and other mobile devices.

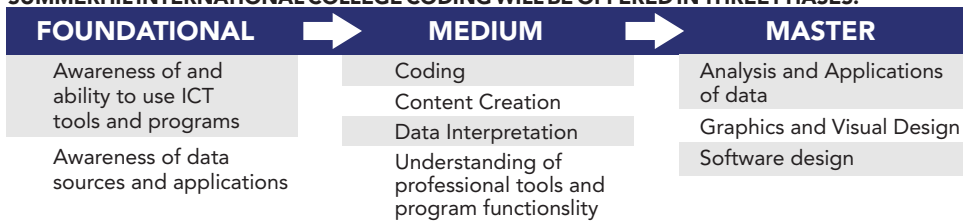
HTML is the language for describing the structure of Web pages. HTML gives authors the means to: Publish online documents with headings, text, tables, lists, photos, etc. Retrieve online information via hypertext links.

PYTHON is used to handle high-level behaviours and to quickly develop tests or proof of concepts.

SUMMERHILL'S CODING CURRICULUM

Is designed to prepare learners with the skills they need to be able to bring innovative tech-based solutions to life and thrive in a career in the tech industry.

SUMMERHILL INTERNATIONAL COLLEGE CODING WILL BE OFFERED IN THREE PHASES:



CODING ON GRADE 8 & 9 LEVEL:

- Introduction to coding
- Principles of design
- Principles of application
- Practical designing
- Analysing

CODING ON GRADE 10-12 LEVEL:

- Advance and intense focus on HTML & JAVASCRIPT programme.
- Practical coding
- Userface Design
- Analysing
- Mobile development - cross device applications
- Website design
- Application development

BENEFITS OF LEARNING CODING:

- You can make your own Website.
- Coding ability gives a new perspective to problem-solving.
- Learning to code offers career opportunities.
- You can start your own Business.
- You can do Freelancing.



World Class Education. Unlocking the Future.

We offer both Cambridge and IEB curriculum and examinations.

college@summerhill-school.co.za | MAIN OFFICE & ADMISSIONS: (011) 468 5986

www.summerhill-school.co.za