

# Digital Technology

**Digital Technology allows students to develop skills in Computer Science Fundamentals, Programming Languages, Web Development, Cybersecurity, User Experience Design, Digital Media, Artificial Intelligence, Robotics and Electronics.**

In a nutshell Digital Technologies gives students the strong knowledge and skills in computer concepts and practical skills that relate to today's digital world.

The digital world is forever changing. Learning Digital Technology allows students to build their digital literacy, problem solving skills and enhance innovation. It will become more important as technology advances and becomes increasingly integrated in all aspects of our lives.

Digital Technology will provide career opportunities and critical thinking skills that will help students in the future.

Graphic idea: Computers, Web Design, Electronics, Programming Symbols.

## Junior Digital Technology Programme:

- Robotics
- Electronics/Electronic Systems- Arduino, Makey Makey, Micro Bits
- Programming-Scratch/Python
- Game Development
- Design Thinking/ Colour Theory
- Cybersecurity
- Digital Citizenship
- Website Development
- Software Applications
- File Management/Computer Skills
- 3D Printing

## Senior Digital Technology Programme:

- Website Development-HTML, CSS and JavaScript
- Digital Media Outcomes
- Design Thinking
- Project Management
- User Experience Design
- Programming-Python
- Human Computer Interactions
- Computer Science Concepts

## The students will be able to:

- Build on their programming skills
- Apply and develop critical thinking skills
- Apply design thinking skills to future projects
- Think in creative, innovative ways.
- Develop their problem solving skills
- Work collaboratively and provide a product to an end user or a range of stakeholders
- Select appropriate software applications for a desired purpose
- Understand and use electronic systems

## What careers does it lead onto?

- Software Developer/Engineer
- IT Manager/Director
- Digital Marketer
- UX Designer
- Digital Connect Creator
- IT Support Specialist
- Game Developer
- Visual Effects Specialist

