ICT / COMPUTING

YEAR 1

AIMS OF THE COURSE

- Develop digital literacy and computational thinking
- Build safe, responsible and confident technology users
- Understand hardware, networks, data and information
- Develop programming, algorithms and problem-solving skills
- Apply IT creatively through practical projects
- Develop independence and digital skills for future pathways

KEY SKILLS DEVELOPED

- Computational thinking
- Problem solving
- Communication
- Digital literacy
- Creativity
- Data handling
- Independence

WHY ICT / COMPUTING?

- Essential life skill
- Supports future careers
- Develops logical thinking
- Combines creativity with technology

TERM 1

MODULE 1

Online safety

- Communication and networks
- Information technology
- Digital Footprint
- Online Reputation

TERM 2

MODULE 2

Kodu

- Programming and developing
- Algorithms
- Introduction to programming and algorithms
- Create and program characters, objects and game worlds
- Test, debug and improve a simple game

TERM 3

MODULE 3

Comic strips

- Plan and design a comic strip using digital tools
- Create characters, images and text to communicate a story
- Edit, format and evaluate the finished comic strip

MODULE JOURNEY → ONLINE SAFETY → PROGRAMMING → DIGITAL CREATIVITY → HARDWARE → DESIGN → INDEPENDENT PROJECT

TERM 4

MODULE 4

What are computers

- Communication and networks
- Hardware and processing

TERM 5

MODULE 5

Magazine covers

- Information technology
- Plan and design a magazine cover using digital tools
- Use images, text, fonts and layouts effectively
- Edit and evaluate the finished magazine cover

TERM 6

MODULE 6

Individual project

- Information technology
- Communication and networks
- Data and data representation

ICT / COMPUTING

YEAR 2

AIMS OF THE COURSE

- Develop digital literacy and computational thinking
- Build safe, responsible and confident technology users
- Understand hardware, networks, data and information
- Develop programming, algorithms and problem-solving skills
- Apply IT creatively through practical projects
- Develop independence and digital skills for future pathways

KEY SKILLS DEVELOPED

- Problem solving
- Communication
- Digital literacy
- Creativity
- Data handling
- Independence

WHY ICT / COMPUTING?

- Essential life skill
- Supports future careers
- Develops logical thinking
- Combines creativity with technology

TERM 1

MODULE 1

Online safety

- Communication and networks
- Information technology
- Digital Footprint
- Online Reputation

TERM 2

MODULE 2

Drones

- Explore how drones are controlled and programmed
- Develop algorithms to plan drone movements and tasksDesign, test and improve a simple drone challenge

TERM 3

MODULE 3

Cinema project

- Plan and design a short film or cinema project
- Create and edit digital media using images, video and sound/ Present and evaluate the finished project

TERM 4

MODULE 4

Modelling data

- Understand how data can be collected, organised and represented

Use spreadsheets to enter, calculate and analyse data

Create charts and models to present and interpret information

TERM 5

MODULE 5

Microbits

- Programming and developing of Microbits
- Information technology
- Algorithms

TERM 6

MODULE 6

Individual project

- Information technology
- Programming and developing
- Communication and networks
- Data and data representation