

Skills

Year 11 "Becoming KSS Ready"

- Understand threats posed to devices and systems.
- Understand the purpose of system software operating system & utility software
- Understand encryption software
- Know Network layers and protocols
- Understand the Characteristics and purpose of integrated development environments
- Know Boolean logic & Computational thinking skills

Year 10 "Developing into Independent Learners"

- Know and categorise the components of a computer
- Understand the function of the CPU and the FDE cycle
- Understand the need for primary storage and characteristics of secondary storage
- Master fundamental programming skills
- Understand units of measurement for Data
- Understand Computer networks and topologies
- Understand Defensive design & robust programs
- Understand Ethical, Legal, Cultural and environmental issues within computing

Year 9 "Developing Skills to Enhance Learning"

- Become familiar with programming language environment
- Understand how to ask logical questions to solve problems
- Understand how logic is used in different situations
- Know what a computer system is and the forms they come in
- Use tangible code development methods to solve real world problems
- Develop Web development skills
- Understand Artificial intelligence and machine learning

Year 8 "Taking Responsibility for Learning"

- Understand what a computer system is and the relevance of learning about computer parts
- Understand and interpret abstract concepts like Binary
- Understanding and explaining the process of how images/sound are digitally stored
- Use text-based programming
- Understand the impact and need for computer networks
- Understand what computer modelling is
- Use financial modelling tools
- Understands the impact of 3D animation on the wider world
- Understands how to produce an animation video

Year 7 "Transition to High School"

- Understanding of school login system using username and password as well as Homework portal
- Understanding of folder structures, directories, and cloud storage organisation
- Provide suggestions for a range of scenarios regarding online safety.
- Explain the importance of being safe online and how best to do this.
- identify potential downsides to social networking sites and impact on mental health
- Use a range of software to create relevant and accurate documents for a given target audience.
- Know how to automate mathematical calculations
- Use graphic-based programming
- Explains and justifies how the use of technology impacts on society
- Know how to develop purposeful websites

Knowledge

Future Education, Employment & Training

KS5 Study

