ICT
Year 8 Programme of Study

What ICT skills will I learn?

The programme will include various projects in order to enhance your knowledge of ICT and build your skills in using computer applications. You will learn about Cryptography, Smart homes and Computing theory. You will learn skills in Flash to create Animations, Photoshop to manipulate images, CAD to create 3-D graphics, Python in to learn the fundamentals of programming and Kodu in order to create computer games.

How will my work be assessed?

You will be assessed against the National Curriculum Framework according to your own individual level. You will need to produce leaflets, displays, podcasts, animations, presentations, spreadsheets, programs, games and digital images in order to provide evidence that you are meeting the standards. You will also need to plan, draft, test and evaluate your work and show that you have researched topics thoroughly.

What is included in the Key Stage 3 Levels for ICT?

4	Plan and implement solutions that combine and refine different forms of information	Evaluate the quality and success of their solutions	Explain how and why the use of ICT varies in and out of school	Organise and process data for a purpose	Devise and refine sequences of instructions	Use models to explore relationships between inputs and outputs and explain how the models work	Use appropriate search criteria to find relevant information, and check its plausibility and usefulness	Present information in different forms suited to purpose	Use ICT to communicate and collaborate, identifying some of the risks and acting to minimise them
5	Plan and develop structured solutions to problems which use a combination of ICT tools and techniques	Use criteria to evaluate the quality of solutions, identifying improvements and refining their work	Identify benefits and limitations of using ICT both inside and outside school	Use logical and appropriate structures to organise and process data	Create precise and accurate sequences of instructions	Change variables within models and explain the impact	Take account of accuracy and potential bias when searching for and selecting information	Present information in a range of forms for specific purposes and familiar audiences	Use ICT safely and responsibly
6	Plan and develop solutions which show efficiency and integration of ICT tools and techniques	Use criteria and feedback to improve the effectiveness and efficiency of solutions	Explore the impacts of the use of ICT in work, leisure and home	Devise a data handling solution to test hypotheses that uses techniques to reduce input errors	Create efficient sequences of instructions including the use of subroutines	Test predictions by varying rules in models and assess the validity of the conclusions	Use complex lines of enquiry efficiently to interrogate information	Explain choices when presenting information for different purposes and wider or remote audiences	