



Subject: ICT

ICT equips students to use computational thinking and creativity to understand and change the digital world and has close links with math's and science. Students are taught the principles of information and computation, how digital systems work, and how to put this knowledge to use through a variety of different methods. ICT also ensures that students become digitally literate – able to use, and express themselves and develop their ideas through, information and communication technology as active participants in a digital world.

Term 1 (Aug – Oct)	Term 2 (Oct – Dec)	Term 3 (Jan – Mar)	Term 4 (Mar – Jun)
9 weeks	8 weeks	12 weeks	8 weeks
<p>Introduction to school</p> <ul style="list-style-type: none"> • Introduction to school facilities • Classroom rules and expectations • Passwords and security <p>History of computing</p> <ul style="list-style-type: none"> • The invention of a computer • Evolution of computers • Important people in computing • The future! <p>Code breaking</p> <ul style="list-style-type: none"> • Introduction to binary • Introduction to hexadecimal • Why these are used <p>Components of a computer</p> <ul style="list-style-type: none"> • Computer architecture – what's inside in the box • Types of computer • Build your own PC 	<p>Spreadsheets</p> <ul style="list-style-type: none"> • Introduction to excel • What is a spreadsheet • Why is a spreadsheet used • Simple formulas • Formatting and adding images • Charts and graphs 	<p>3D Modelling</p> <ul style="list-style-type: none"> • Draw 2D • Expand to drawing 3D shapes • Creation of Eco house to be displayed in Eco week <p>Computational thinking</p> <ul style="list-style-type: none"> • What is computational thinking • Breaking down your problems • Algorithms • Introduction to scratch • Variables, loops, conditional IF 	<p>Animation</p> <ul style="list-style-type: none"> • Explore animation • Introduction to the moving image • Creation of animation <p>E-safety</p> <ul style="list-style-type: none"> • What is cyberbullying • The effects of cyberbullying • Film creation techniques • Creation of short film to be used in safety week