

## Curriculum overview: Computing

### **Why do we study Computing at The Earls High School?**

The aim of the Computing Curriculum at The Earls High School is to ensure that pupils become digitally literate. That they able to use, express themselves and develop their ideas through information and communication technology. This will enable them to access the future workplace and be active participants in a digital world

### **What skills and knowledge do we anticipate students will have in this subject before they begin at The Earls High School?**

- Basic keyboard skills
- Basic Internet skills – searching, savings images, using websites
- Basic file management skills – creating folders, using sensible filenames
- Basic skills in MS Word and MS PowerPoint
- An understanding of simple programming concepts
- Security – and understanding of the need for knowing user details and passwords

### **What skills and knowledge would we like students to have in this subject at the end of their time at The Earls High School?**

By the end of Year 9 – students should have developed the skills and knowledge of the following:

- MS Word, Excel and PowerPoint
- Video editing software
- Web design software
- Game making software
- Image manipulation software
- Text based programming language

## Year 7 Curriculum Map

AUTUMN TERM	SPRING TERM	SUMMER TERM
<p><b>Unit 1: Network Basics</b>  <b>To learn about:</b>            1 - Using the school network, email, OneDrive including sharing documents.            What makes a good password.</p> <p><b>Main home learning tasks:</b>            Completion of assessment task for passwords</p> <p><b>Key assessment:</b>            1-Explanation of why documents are important and what makes a good password.</p> <p><b>Assessment conditions:</b>            Assessment to be uploaded to shared OneDrive folder</p>	<p><b>Unit 3: Esafety</b>  <b>To learn about:</b>            How to stay safe whilst online</p> <p><b>Main home learning tasks:</b>            Esafety key terms</p> <p><b>Key assessment:</b>            Create a short movie outlining key ways to stay safe whilst online</p> <p><b>Assessment conditions:</b>            Assessment to be uploaded to shared OneDrive folder</p>	<p><b>Unit 5: Python Programming</b>  <b>To learn about:</b>            Basic concepts of text based coding.</p> <p><b>Main home learning tasks:</b>            Producing solutions to simple scenarios using Python code .</p> <p><b>Key assessment:</b>            Produce a shopping list in Python that has the user answering questions on screen.</p> <p><b>Assessment conditions:</b>            Assessment to be uploaded to shared OneDrive folder</p>
<p><b>Unit 2: Word-processing</b>  <b>To learn about:</b>            The key features and correct use of Word-processing software</p> <p><b>Main home learning tasks:</b>            Word-processing key terms</p> <p><b>Key Assessment:</b>            Create a word processed document explaining “What would you do with £1m”.            Correct formatting features should be used</p> <p><b>Assessment conditions:</b>            Assessment to be uploaded to shared OneDrive folder</p>	<p><b>Unit 4: Websites</b>  <b>To learn about:</b>            The basic use of web creation software and basic web design processes.            The basics of HTML code</p> <p><b>Main home learning tasks:</b>            Website key terms            Research into items to be included on assessment</p> <p><b>Key Assessment:</b>            Complete a website for a Take away restaurant</p> <p><b>Assessment conditions:</b>            Assessment to be uploaded to shared OneDrive folder</p>	<p><b>Unit 6: Summer Project – Group Project</b>  <b>To learn about:</b>            The input, output and storage devices that are found in a computer.</p> <p><b>Main home learning tasks:</b>            Reading task- Research on computers</p> <p><b>Key Assessment:</b>            Group Presentation – Which computer to buy</p> <p><b>Assessment conditions:</b>            Presentation of findings to class.</p>

## Year 8 Curriculum Map

AUTUMN TERM	SPRING TERM	SUMMER TERM
<p><b>Unit 1: Email and OneDrive</b>  <b>To learn about:</b>  Recap of basic email functions and use of advanced features  Use of OneDrive shared folders</p> <p><b>Main home learning tasks:</b></p> <p><b>Key assessment:</b>  'Email for dummies'</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>	<p><b>Unit 3: Video Editing</b>  <b>To learn about:</b>  Basic concepts involved with editing and producing a simple movie.</p> <p><b>Main home learning tasks:</b>  Key terms</p> <p><b>Key Assessment:</b>  Edit and create a video to advertise a scuba diving holiday for a holiday company.</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>	<p><b>Unit 5: Esafety 2</b>  <b>To learn about:</b>  The safe use of social networking sites and cyber bullying, sexting etc.</p> <p><b>Main home learning tasks:</b>  Reading task- Research tasks for preparation for assessment</p> <p><b>Key Assessment:</b>  Present the important information about the topics suitable for Year 7</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>
<p><b>Unit 2: Multimedia products</b>  <b>To learn about:</b>  What is meant by the term 'multimedia' and how to create and integrate multimedia products together</p> <p><b>Main home learning tasks:</b>  Collection of resources  Multimedia key terms</p> <p><b>Key Assessment:</b>  Create a multimedia product for a music concert</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>	<p><b>Unit 4: Python 2</b>  <b>To learn about:</b>  More complex programming techniques using a text based language</p> <p><b>Main home learning tasks:</b>  Programming key terms</p> <p><b>Key Assessment:</b>  Create a series of programmes in response to set tasks</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>	<p><b>Unit 6: Spreadsheets</b>  <b>To learn about:</b>  Spreadsheet creation and data manipulation</p> <p><b>Main home learning tasks:</b>  Spreadsheet key terms</p> <p><b>Key Assessment:</b>  Create a spreadsheet for a shop.</p> <p><b>Assessment conditions:</b>  Assessment to be completed in class and uploaded to shared OneDrive folder</p>

## Year 9 Curriculum Map

Students in Year 9 study four units of work throughout the year. Each unit of work lasts for nine weeks and students will rotate after each unit to a new unit with a different teacher. This means that throughout the year students will be taught by 2 different subject specialists. The skills taught during Year 9 are a good indication of what is needed for ICT and GCSE Computer Science courses at KS4.

YEAR 9 ICT ROTATION UNITS	
<p><b>Unit 1: Game Design</b> <b>To learn about:</b> The processes involved in designing and creating games</p> <p><b>Main home learning task:</b> Key terms</p> <p><b>Key assessment:</b> Creation of a 'Pacman' style game.</p> <p><b>Assessment conditions:</b> Assessment to be completed in class and shared by email.</p>	<p><b>Unit 3: Programming</b> <b>To learn about:</b> The concepts of lists, loops and file handling within a text based programming language.</p> <p><b>Main home learning task:</b> Preparation for the assessment</p> <p><b>Key assessment:</b> Aspects of programming and binary code will be assessed throughout the unit.</p> <p><b>Assessment conditions:</b> Assessment to be completed in class and uploaded to shared OneDrive folder</p>
<p><b>Unit 2: ICT in Business</b> <b>To learn about:</b> How ICT is used in a Business environment using a variety of software.</p> <p><b>Main home learning task:</b> Preparation for the assessment</p> <p><b>Key Assessment:</b> Documents will be assessed throughout the unit.</p> <p><b>Assessment conditions:</b> Assessment to be completed in class and uploaded to shared OneDrive folder</p>	<p><b>Unit 4: Web Design</b> <b>To learn about:</b> The process involved in designing and creating a website for a business.</p> <p><b>Main home learning task:</b> Preparation for the assessment</p> <p><b>Key Assessment:</b> Students will be assessed on the design and creation of a website for a specific task.</p> <p><b>Assessment conditions:</b> Assessment to be completed in class and uploaded to shared OneDrive folder</p>

