



KS3 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 are 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
- Image manipulation software
- Text based programming language

Year 7 Curriculum Map: Computing

| Autumn term | Spring term | Summer Term |
|--|--|---|
| <p>Unit 1: Network basics Using the school network, email, OneDrive including sharing documents. What makes a good password.</p> <p>Main home learning tasks: Completion of assessment task for passwords Key vocabulary</p> <p>Key assessment: Explanation of why documents are important and what makes a good password.</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> | <p>Unit 3: Websites The basic use of web creation software and basic web design processes. The basics of HTML code</p> <p>Main home learning tasks: Website Key vocabulary Research into items to be included on assessment</p> <p>Key Assessment: Complete a website for a take-away restaurant</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> | <p>Unit 5: Python Programming Basic concepts of text based coding.</p> <p>Main home learning tasks: Producing solutions to simple scenarios using Python code</p> <p>Key assessment: Produce a shopping list in Python that has the user answering questions on screen.</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> |
| <p>Unit 2: Hardware and Software The input, output and storage devices that are found in a computer.</p> <p>Main home learning tasks: Reading task- Research on computers</p> <p>Key Assessment: Complete a document outlining the basic input, output and storage devices from on a computer system</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> | <p>Unit 4: Esafety How to stay safe whilst online</p> <p>Main home learning tasks: E-safety key terms</p> <p>Key assessment: Create a short movie outlining key ways to stay safe whilst online</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> | <p>Unit 6: Spreadsheets The basic functions and formula of a spreadsheet including simple formatting and graphs</p> <p>Main home learning tasks: Spreadsheet key vocabulary</p> <p>Key Assessment: Complete spreadsheet creation task</p> <p>Assessment conditions: Assessment to be uploaded to shared OneDrive folder</p> |

Year 8 Curriculum Map: Computing

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

Year 9 Curriculum Map: Computing

Students in Year 9 study four units of work throughout the year. The rationale for this is that students should be able to make informed decisions about option choices for KS4. Students will have seen the style, complexity and quality of work needed to complete KS4 courses. The final project will bring together skills from the whole of KS3.

| Autumn term | Spring term |
|---|--|
| <p>Unit 1: Cambridge Nationals Creative iMedia To learn about: what is required to pass Cambridge Nationals Creative iMedia course should it be chosen as an option in KS4. This will include course outline, introduction to theory and exam questions</p> <p>Main home learning task: Key vocabulary Resource collection</p> <p>Key assessment: Create and interactive multimedia product based on design scenario from Creative iMedia</p> <p>Assessment conditions: Assessment to be completed in class and uploaded to Teams</p> | <p>Unit 3: AQA GCSE BUSINESS Introduction Business To learn about: what is required to pass AQA GCSE business Studies course should it be chosen as an option in KS4. This will include course outline, introduction to theory and exam questions</p> <p>Main home learning task: Key vocabulary Online quizzes</p> <p>Key Assessment: Documents will be assessed throughout the unit.</p> <p>Assessment conditions: Assessment to be completed in class and uploaded to Teams</p> |
| <p>Unit 2: OCR GCSE Computer Science Programming To learn about: what is required to pass OCR GCSE Computer Science course should it be chosen as an option in KS4. This will include course outline, introduction to theory and exam questions</p> <p>Main home learning task: Key vocabulary Online quizzes Programming Activities</p> <p>Key assessment: Aspects of programming and binary code will be assessed throughout the unit.</p> <p>Assessment conditions: Assessment to be completed in class and uploaded to shared OneDrive</p> | <p>Unit 4: Project To learn about: how to successfully produce a project incorporating a variety of software using throughout KS3</p> <p>Main home learning task: Key vocabulary Online quizzes Resource collection</p> <p>Key Assessment: Students will be asked to produce a variety of documents showcasing skills learnt throughout KS3</p> <p>Assessment conditions: Assessment to be completed in class and upload to Teams</p> |