



COMPUTING/ ICT DEPARTMENT

Curriculum Overview

The Computing and ICT Department is a core subject at Woolton High School. It is designed in order to provide all pupils with a broad, balanced education to understand the digital world they live and how to interact within it safely. We aim to prepare the pupils with the necessary skills for success when using a computer for a variety of things. We follow the Key stage 3 ICT/Computing framework.

Programming is taught through visual and text based methods such as "Scratch" and Python. Other topics include creating audio books, collecting and exploring data, understanding networks, creating digital music, creating digital art and 3D models and learning to communicate using digital tools.

E-safety forms an important part of all lessons and is also taught through PSHE lessons.

Departmental Staff

Miss M Cooper

ICT Teacher

Departmental Overview

Throughout KS3, pupils will develop the skills necessary to complete the Functional Skills Exam, preparing them for modern technologies in the outside world. Outside of formal teaching, pupils have access to well-resourced, modern computer suites where they are encouraged to work independently or with Support using facilities for presentation of work for examinations and for research. ICT work is usually printed every 2 weeks to show how they have progressed over time.

The units KS3 pupils will cover are as follows:

Unit 1 - Computers and technology – This gives pupils in depth knowledge about the importance of ICT in society and how it has developed over time. Pupils will learn how to search for information, how to navigate around a computer and how to save files in suitable locations being able to navigate around the network.

Unit 2 – Health and safety – Pupils will focus on how to stay safe when using the internet considering the dangers and also the positives of using the internet. Whilst pupils are focusing on this topic pupils will also focus on the presentation of their work focusing on basic formatting skills.

Unit 3 – Digital Media - This allows pupils to be creative using their own ideas to present information in an engaging way.

Unit 4 – Office Skills – Pupils will focus on Key skills required for Their FS exam by giving them an introduction in year 7 and progress in year 8. Pupils will Research and select data from a range of digital sources to help plan and include in their spreadsheets and databases.

Unit 5 – Programming – Pupils will learn how digital systems work, and how to put this knowledge to use through programming to create programs through visual and text programming languages.

Unit 6- Game design – Pupils will use their creative ideas to plan design and implement a game using a variety of software.

The units KS4 pupils will cover are as follows:

KS4 pupils at Woolton High School progress from Level 1 Functional Skills to Level 2 Functional Skills ICT and will cover the following units:

Functional Skills

Unit 1 – Internet and email

Unit 2 – Spreadsheets

Unit 3 – Desktop Publishing

Some KS4 pupils may progress further to complete a CIDA qualification which encourages the creative use of digital applications, covering imaging, multimedia, and website and computer game development at levels 1 and 2.

CIDA

Unit 1 – Web design

Unit 2 – Game Design

Examinations/Key Assessments

- Summary Quiz at the end of each topic
- The pupils will also create a 'mini project' at the end of each half term which is assessed and up-levelled.
- Christmas and Summer Mock AQA Functional Skills Assessments.

How Parents can Help:

- Request Homework to be set from school.
- Request a fortnightly update on progress

	Year 7	Year 8	Year 9	Year 10	Year 11
Half term 1	<p><u>Unit 1 – Computers and technology</u></p> <ul style="list-style-type: none"> • Navigating around a computer • History of a computer • Inputs and outputs <p>Assessment - Quiz</p>	<p><u>Unit 1 – Computers and technology</u></p> <ul style="list-style-type: none"> • History of ICT Pioneers • Computing hardware and software • File types • Binary 	<p><u>Unit 1 – Computers and technology</u></p> <ul style="list-style-type: none"> • Hardware—Internal and external components • Internet and email • E-commerce • Binary 	<p><u>CIDA – Unit 1</u></p> <ul style="list-style-type: none"> • Research • Web design 	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Game plan • Moodboard <p><u>Functional Skills unit 2</u></p> <ul style="list-style-type: none"> • Spreadsheets
Half term 2	<p><u>Unit 2 – E-safety</u></p> <ul style="list-style-type: none"> • DTP - Publisher • E-Safety - Staying safe online <p>Assessment – leaflet design</p>	<p><u>Unit 2 – E-safety</u></p> <ul style="list-style-type: none"> • DTP – Powerpoint • E-Safety - Staying safe online • Computer Crime / Cyber Security 	<p><u>Unit 2 – Health and safety</u></p> <ul style="list-style-type: none"> • Laws • Internet security • networks 	<p><u>CIDA – Unit 1 (continued)</u></p> <ul style="list-style-type: none"> • Research • Creating a website for a given company 	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Game Development <p><u>Functional Skills unit 3</u></p> <ul style="list-style-type: none"> • Desktop publishing
Half term 3	<p><u>Unit 3 – Digital Media</u></p> <ul style="list-style-type: none"> • Photography • Movie Making • Using Sound <p>Assessment - Project</p>	<p><u>Unit 3 – Digital Media</u></p> <ul style="list-style-type: none"> • Flash animation 	<p><u>Unit 4 – Office skills</u></p> <ul style="list-style-type: none"> • Spreadsheets • Word documents 	<p><u>Functional Skills Unit 1</u></p> <p>Exam preparation and revision for FS Level 1 or 2.</p>	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Game Development <p><u>Functional Skills unit 1</u></p> <ul style="list-style-type: none"> • Desktop publishing
Half term 4	<p><u>Unit 4 – Office skills</u></p> <ul style="list-style-type: none"> • Spreadsheets • Databases • Word documents 	<p><u>Unit 4 – Office skills</u></p> <ul style="list-style-type: none"> • Spreadsheets • Databases • Word documents 	<p><u>Unit 4 – Office skills</u></p> <ul style="list-style-type: none"> • Databases • PowerPoint 	<p><u>Functional Skills Unit 2</u></p> <p>Exam preparation and revision for FS Level 1 or 2.</p>	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Game Testing <p><u>Unit 1, 2 and 4</u></p> <p>Exam preparation and revision for FS Level 2</p>

<p>Half term 5</p>	<p><u>Unit 4 – Office skills</u></p> <ul style="list-style-type: none"> • Spreadsheets • Databases • Word documents 	<p><u>Unit 5 - Programming</u></p> <ul style="list-style-type: none"> • Programming with microbits • Python Turtle • Debugging 	<p><u>Unit 1, 2 and 4</u></p> <p>Exam preparation and revision for FS Level 1</p>	<p><u>Functional Skills Unit 3</u></p> <p>Exam preparation and revision for FS Level 1 or 2.</p>	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Evaluation <p><u>Unit 1, 2 and 4</u></p> <ul style="list-style-type: none"> • Exam preparation and revision for FS Level 2
<p>Half term 6</p>	<p><u>Unit 5 –Programming</u></p> <ul style="list-style-type: none"> • Programming Scratch • Instructions 	<p><u>Unit 6 – Game Making</u></p> <ul style="list-style-type: none"> • Introduction to gamemaker 	<p><u>Unit 5 - Programming</u></p> <ul style="list-style-type: none"> • Programming with Python • Websites—Serif web plus • Design / Plan / Create/ Test 	<p><u>CIDA – Unit 2</u></p> <ul style="list-style-type: none"> • Game research • Sprite Design 	<p style="background-color: #cccccc;"></p>