



Year 8 Computer Science

Subject Leader: Mrs Muyunda Oldham

Computer Science aims to engage, endeavour and excel all our students to develop into responsible digital users, that are creative, exploratory, independent and inquiring whilst using computational problem solving skills to solve, test and evaluate solutions for the 21st Century Digital Age.

Topics to be covered in Year 8

	Term 1	Term 2	Term 3
Topics to be covered	Cyber security Intermediate UK Bebras Challenge 2025 Computational Thinking HTML Website creation / Google site web design and XRay Goggles web page inspector	Introduction to Python using Oak Academy & Turing Lab Advanced Data handling using Excel spreadsheets Mid-Year Exam using MS Teams Revision	App Creation Graphic Manipulation using GIMP EOY Exam using MS Teams Revision
Skills to be developed	Prevention of social engineering and network threats Limiting your digital footprint Exploring ICT laws and legislation - GDPR, DPA Assess individual online behaviours by exploring social networking profiles to examine safe and potentially unsafe choices Set strong Passwords to prevent CMA from others Create linked Google sites website with linked interactive webpages Use Cyber Explorers to enhance of understanding of network threats and measures to prevent	Python programming Create Variables Use conditional statements Strings Integers Functions Loops Data handling Spreadsheets Basic arithmetic formula Sum /average function If statements Charts Vlookup Conditional formatting	Mobile App Inventor Creation Create Save Retrieve Block Code Test Debug Preview Share QR codes Use Blockly/JavaScript GMP skills Feathering Layering Distorting Resolution

Year 8 Useful Website Links

<http://www.bbc.co.uk/education>

<http://www.bbc.co.uk/education/subjects/zvc9q6f>

<https://www.turinglan.co.uk>

https://teach-ict.com/2016/ks3/ks3_home.html

<http://www.bing.com/search?q=cisco+binary+game&src=IE-SearchBox&FORM=IESR02>

https://www.cyberexplorers.co.uk/pdf/Cyber-Explorers_Lesson-Plans.pdf

<https://www.thenational.academy>

<https://www.codecademy.com/learn/all>

<https://www.w3schools.com/python>

<https://scratch.mit.edu/>

Marking, Assessment and Feedback

Over the course of an academic year students will complete a number of topics and will be assessed using progress paths, formal tests, MS form quizzes/topic tests.

Information from these assessments will contribute in making decisions regarding reporting student progress and predicting outcomes. Current guidelines mean that we cannot provide as much detailed written feedback as is typical from core subjects. In addition, teachers will evaluate students' learning through enrichment activities, class contribution, homework and a range of other activities. Through this, students will know where they are in their learning journey and what they need to do next to make further progress.

Teachers will continue to provide planned written feedback on selected pieces of work.

Homework

Homework will be set using the online platform Go 4 Schools <https://www.go4schools.com/>

Contact Information

If you would like to get in contact, please contact your child's teacher on the email address below:

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